iSecuCloud
HVR3200 / NVR3200
User Manual

Version 2.0

iSecuCloud®

About This Document

This manual is intended for administrators and users of iSecuCloud HVR3200/NVR3200. It covers configuration of HVR3200/NVR3200 as well as instructions for using and managing HVR3200/NVR3200 on your devices. Later versions of this document will be posted on iSecuCloud website, as required.

The use of video surveillance devices can be prohibited by laws that vary from country to country. It is the user's responsibility to ensure that the operation of such devices is legal before installing this unit for surveillance purposes.

Version history

Version	Description	Date
2.0	Initial release	2012-10-04

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Support

Should you require any technical assistance, please contact your reseller or SI. If your questions cannot be answered immediately, please forward your queries through the appropriate channels to ensure a rapid response.

Package Contents

HVR3200/NVR3200 Server

Accessory box

Keypro

Installation CD

Power cord

Console cable (pcs)

HDD tray key (pcs)

1*DVI to 8*BNC cable (pcs)

Backup PCI slot cover (pcs)

Backup fan stop spong (pcs)

Backup screws for hot swap HDD tray (pack)

Backup screws for mother board fixing (pack)

Backup stand-off for mother board fixing (pack)

Backup screws for rail (pack)

Backup spacers for mother board supporting (pack)

Backup cable tie (pack)

Backup cable tie mount (pack)

Accessory box for sliding rail (box)

Tool-less rail(pcs)

Screws for rail (pack)

Introduction

HVR3200/NVR3200 (called HVR/NVR in the content below) is video surveillance software which provides channel management, live view, recording, playback, and event management for up to 32 channels of IP and analog camera.

System requirement

(1) Server

- Minimum CPU & RAM for different performance:

CPU & RAM	Preview *(at the same time)*	Playback *(at the same time)*
CPU: Intel Core i3 – 2100 RAM: 2GB	16 channels / D1 / 30fps or 32 channels / CIF	4 channels / 720P / 30fps or 8 channels / D1 / 30 fps
CPU: Intel Core i5 – 2400 RAM: 4GB	32 channels / D1 / 30fps	16 channels / 720P / 30 fps
CPU: Intel Core i7 – 2600 RAM: 4GB	32 channels / 720P / 30fps	16 channels / 720P / 30 fps

- Hard disk: At least 1TB for the installation of application
- Recommended OS: Microsoft Windows 7 32-bit Edition,
- Other requirement: Direct X 9 or above, IMAPI
- Supported monitor ration: 16:9, 16:10, 4:3, 5:4

(2) Remote client

- Minimum CPU & RAM for different performance:

CPU & RAM	Preview (at the same time)	Playback (at the same time)
CPU: Intel Core i3 – 2100 RAM: 2GB	16 channels / D1 / 30fps or 32 channels / CIF	4 channels / 720P / 30fps or 8 channels / D1 / 30 fps
CPU: Intel Core i5 – 2400 RAM: 4GB	32 channels / D1 / 30fps	16 channels / 720P / 30 fps
CPU: Intel Core i7 – 2600 RAM: 4GB	32 channels / 720P / 30fps	16 channels / 720P / 30 fps

- Web browser: Internet Explorer 6, 7, 8

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1 Install and Uninstall

1.1 Install Capture Cards (for HVR3200)

You will need optional Capture Cards to connect analog cameras. The capture card is able to convert video / audio signals from analog to digital. In other hand, you may also insert Digital IO Cards to directly connect other digital input / output devices.

The HVR system can be installed with 2 capture or digital I/O cards at the same time. HVR is currently compatible with YUANSC390N16, a PCIEx1 capture card for channel encoding. Each YUANSC390N16 is able to connect 16 channels of video and audio source. About the digital in/out interface, HVR is currently compatible with the YUANSCIO Card which is capable to connect 4 output devices and 4 input devices at the same time and maximally 2 cards can be installed at the same time.

Installation steps for capture card and IO card:

(1) It is suggested that capture cards are installed before the installation of HVR. Besides, please remove every managed IP Channels in the HVR before you insert any capture cards.

(2) Please make sure that the system power must be turned off. Insert the CONN-1 of the capture card into the PCIEx1 slot of the motherboard. (Figure 1-1)

(3) Connect camera CH1 to CH8: Insert the DVI cable (which is labeled as V1 ~ V8, A1 ~ A4) to the CONN-4 of SC390N16 capture card. Then, connect the video connectors (marked V1 ~ V8) to the camera CH1 ~ CH8 and connect the audio connectors (marked A1 ~ A4 to the audio sources from 4 of these 8 cameras.

(4) Connect camera CH9~CH16 via another DVI cable referring to step 3).

(5) HW Watchdog: SC390N16 provides a hardware watchdog which is able to reset the computer system while any abnormal event is occurred in the system. To enable this function, please connect the 2 pins of the CONN-2 on SC390N16 (ref. to figure 1-1) to the RESET button of the chassis, and then connect the other 2 pins of the CONN-2 (SC390N16) to the RESET pin connector of the motherboard. If you need to insert the second SC390N16 to the computer system, please the cable which is connected the RESET pin connector of the motherboard, and then connect it to any 2 pins of the CONN-2 of the second SC390N16, finally connect the other 2 pins of the second SC390N16 to the RESET pin connector of the motherboard. (Figure 1-2)

(6) Insert SCIO Cards: Connect the CONN-8 of the SCIO Card to the CONN-3 of the SC390N16 card, and then connect the CONN-6 and CONN-7 of the SCIO Card to digital devices. Only one SCIO Card can be inserted to one SC390N16 card at the same time. (Figure 1-1, 1-3)

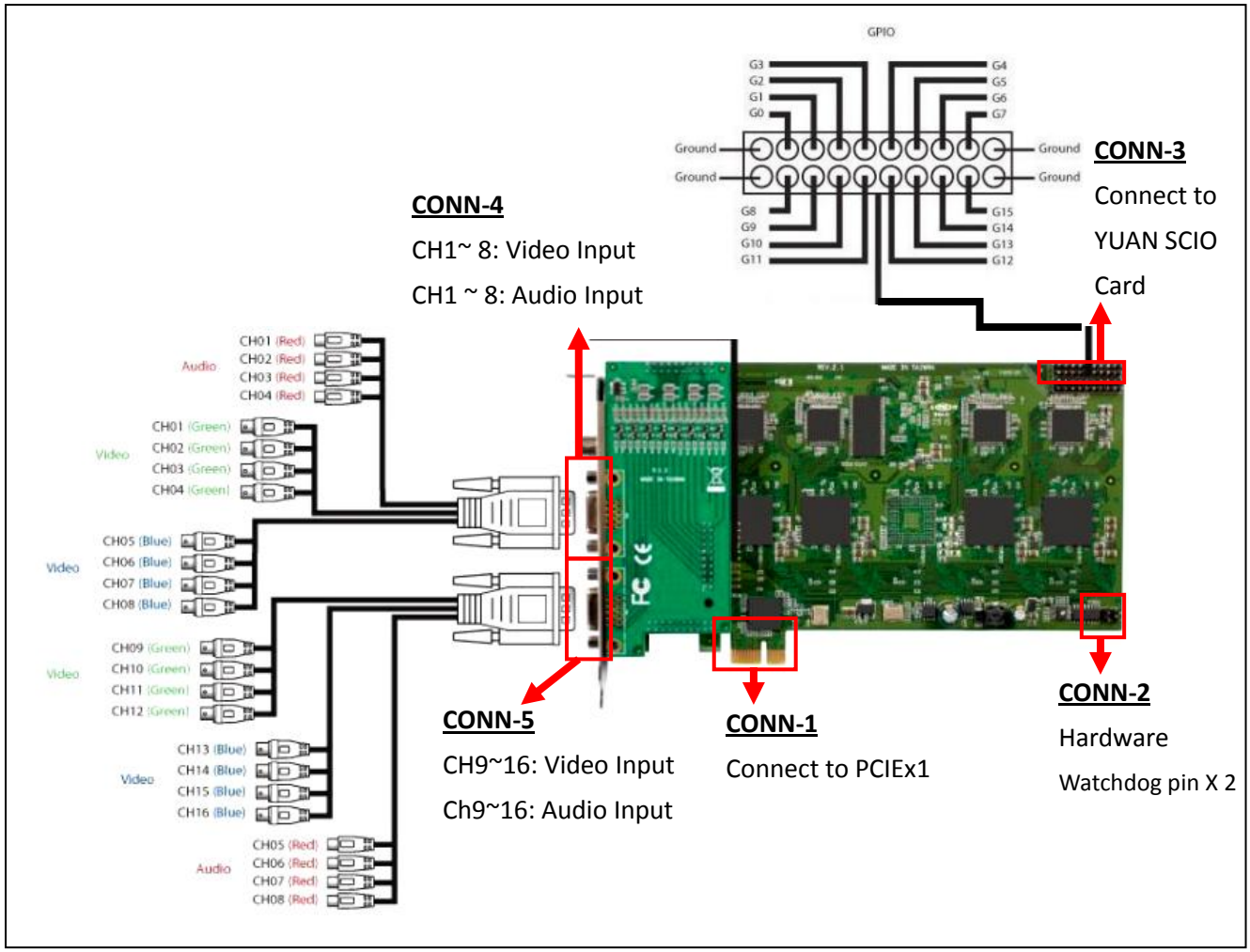


Figure 1-1 SC390N16 the Capture Card

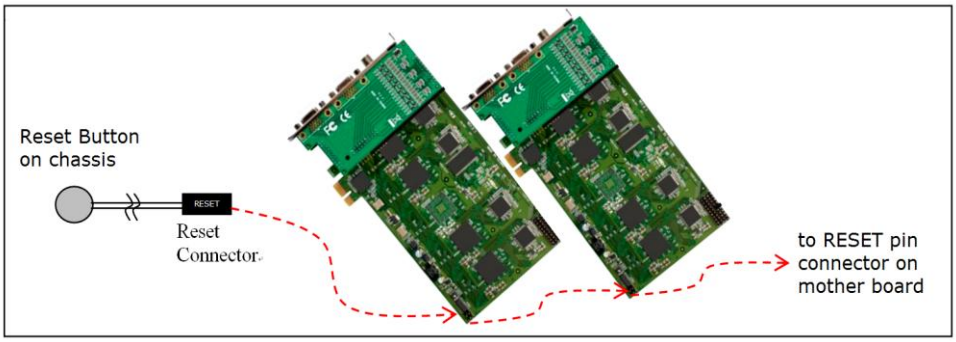


Figure 1-2 Capture Card hardware watchdog cascading manner

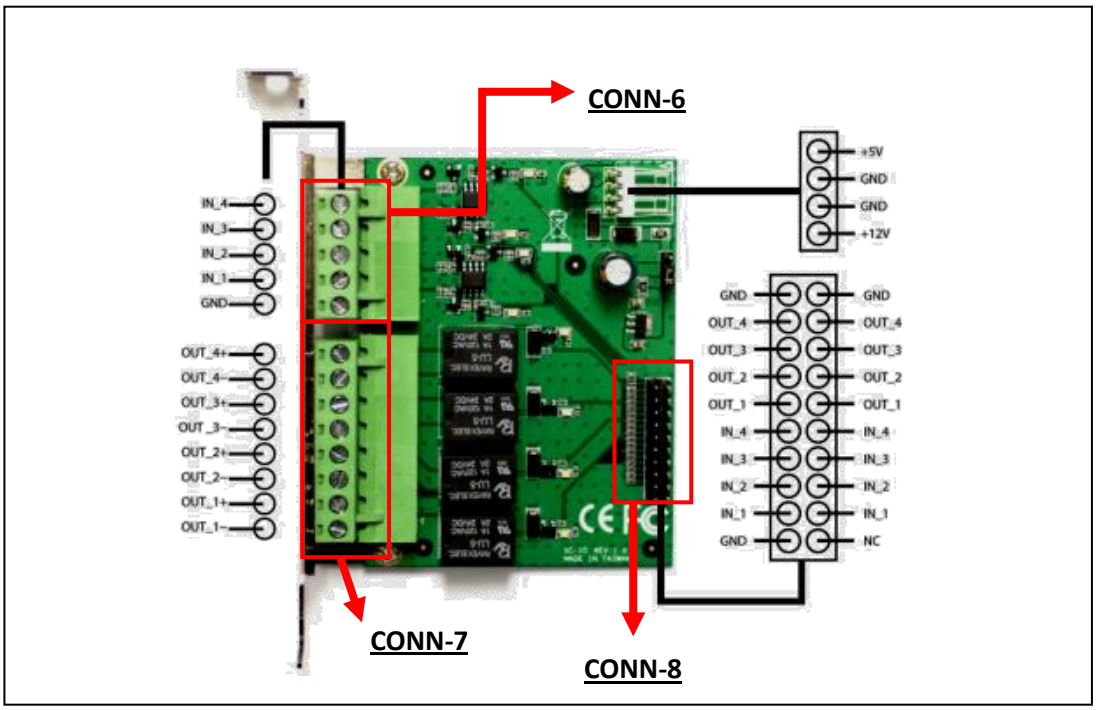


Figure 1-3 SCIO Card

1.2 Install the Software

Note: Please insert the USB KeyPro (which is provided with the software package) to any USB port of the computer system before your install the HVR software.

(1) Double-click "Setup.exe" icon in the icon, the pop-up "Welcome to the HVR Installation Wizard" dialog box (Figure 1-4), click on the "Next" button.

HVR
Welcome to the HVR Setup Wizard
The installer will guide you through the steps required to install HVR on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >

Figure 1-4

(2) Pop-up "Select Installation Folder" dialog box, select the software installation location and user rights “all users" or "only yourself” (Figure 1-5), click on the "Next" button.

Note: To install this HVR software, it is required the hard disk space is at least 50 GB.

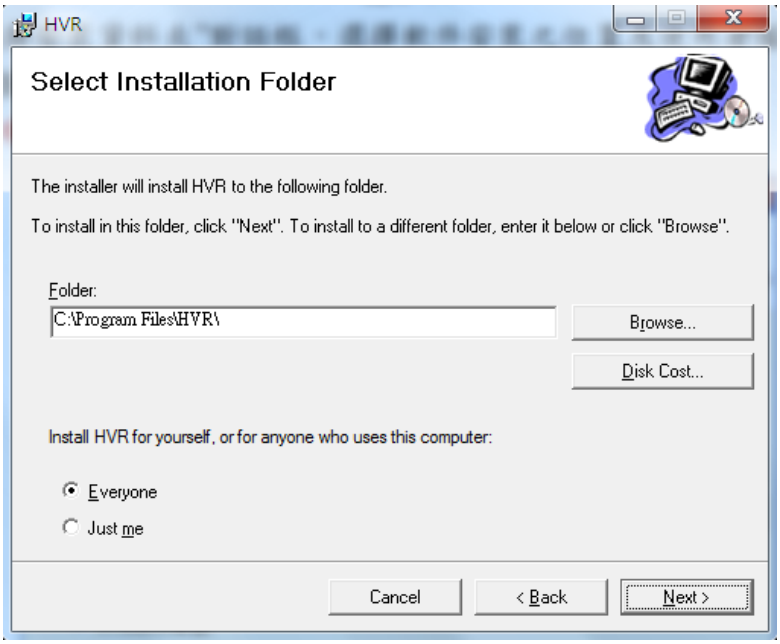

HVR
Select Installation Folder
The installer will install HVR to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\HVR\
Browse...
Disk Cost...
Install HVR for yourself, or for anyone who uses this computer:
Everyone
Just me
Cancel
< Back
Next >

Figure 1-5

(3) Pop-up "Confirm Installation" dialog box (Figure 1-6), click "Next" button.

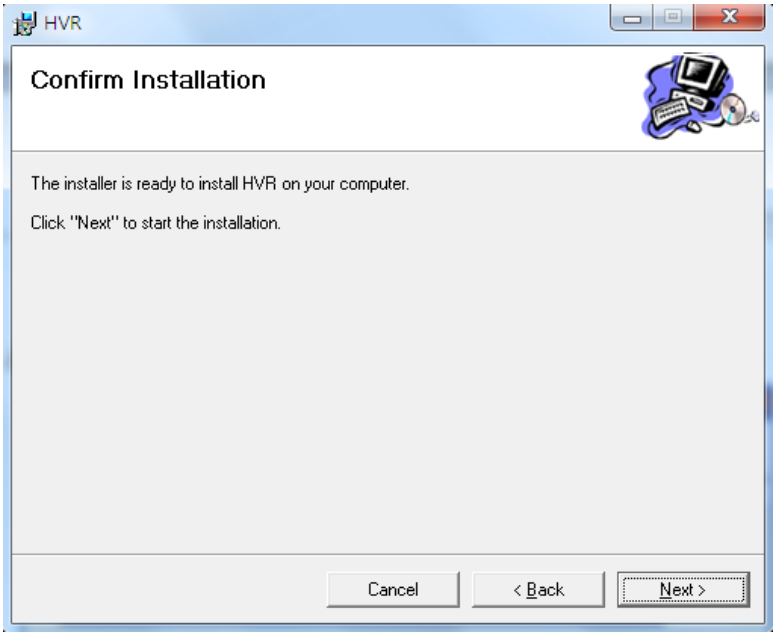

HVR
Confirm Installation
The installer is ready to install HVR on your computer.
Click "Next" to start the installation.
Cancel
< Back
Next >

Figure 1-6

(4) Pop-up "Installing HVR" dialog box, and displays the progress of the software installed (Figure 1-7).

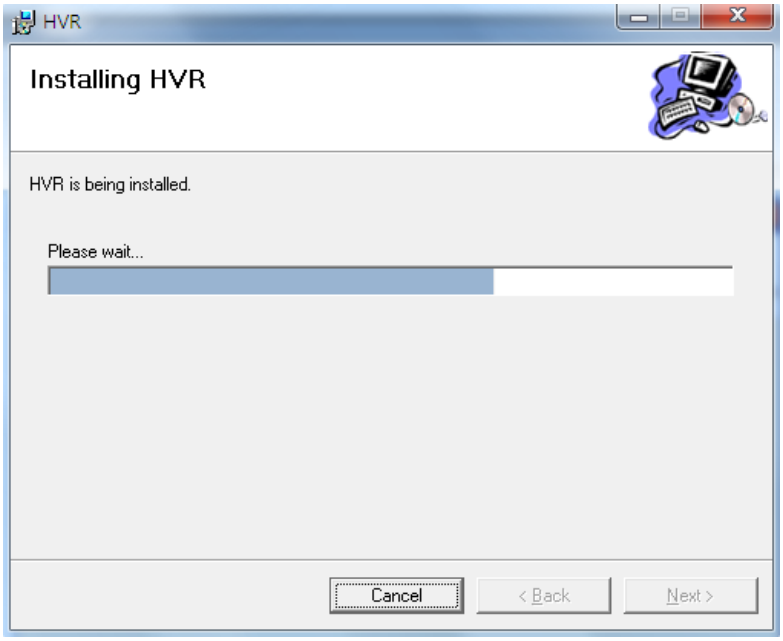


Figure 1-7

(5) After installation, automatic pop-up "Installation complete" dialog box, click "Close" button, the software installed (Figure 1-8).

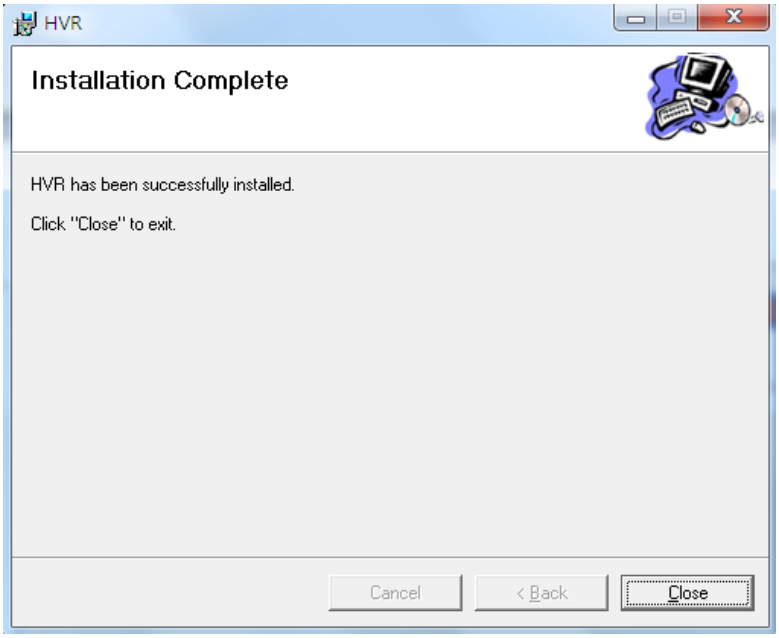


Figure 1-8

1.3 Install the Drivers for Capture Cards(for HVR3200)

(1) Double click the “Driver_AH8400_ (version number). Exe”icon, the pop-up Driver Setup dialog box, click "Next" button (Figure 1-9).

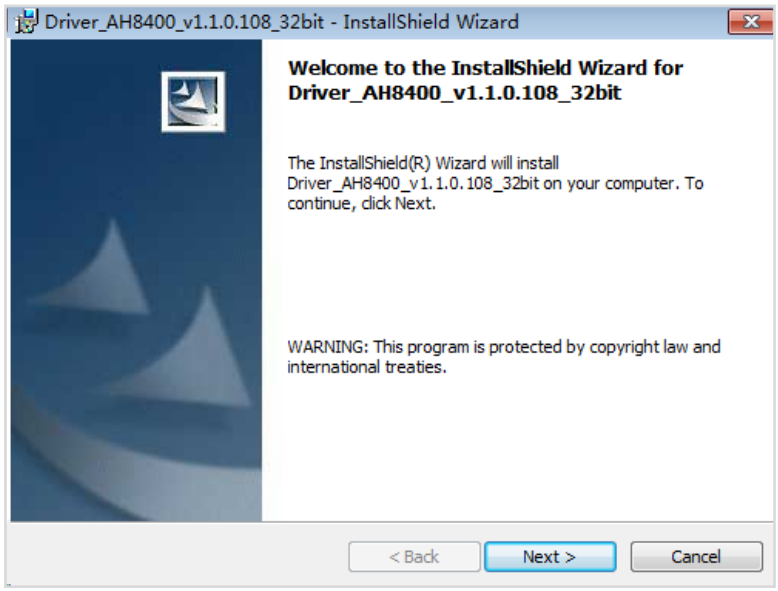

Driver_AH8400_v1.1.0.108_32bit - InstallShield Wizard
Welcome to the InstallShield Wizard for Driver_AH8400_v1.1.0.108_32bit
The InstallShield(R) Wizard will install Driver_AH8400_v1.1.0.108_32bit on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

Figure1-9

(2) Pop-up "Customer Information" dialog box, enter your user name and organization, click on "Next" button (Figure 1-10).

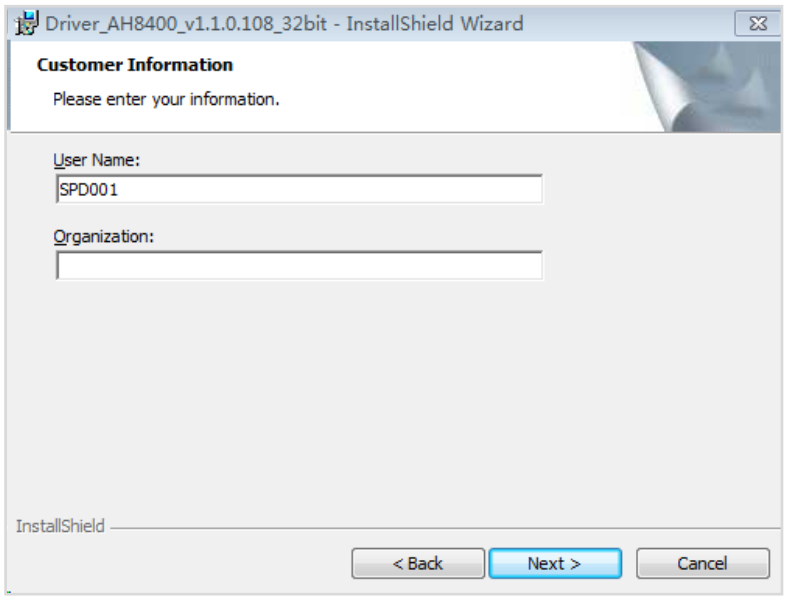


Figure 1-10

(3) Pop-up "Ready to Install" dialog box, click the" Install "button (Figure 1-11).

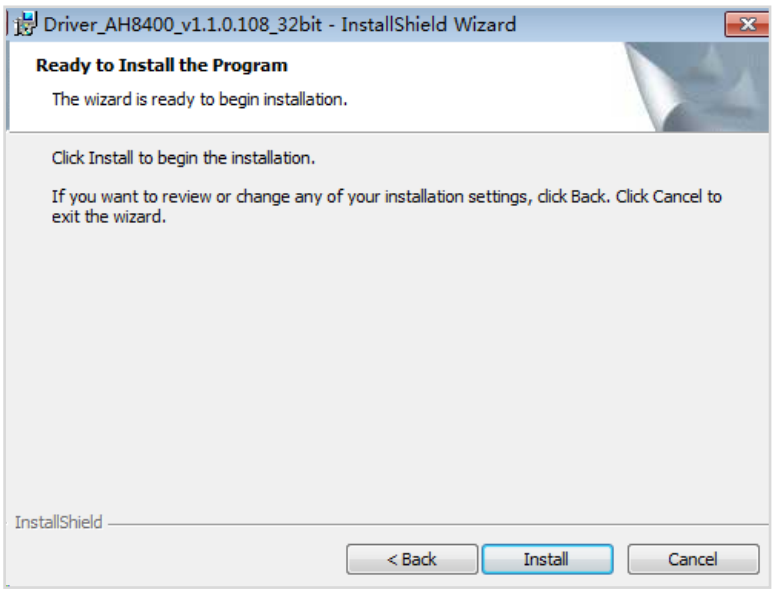

Driver_AH8400_v1.1.0.108_32bit - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

Figure 1-11

(4) During the installation process, pop-up "Windows Security" prompt, click "Install" button.

(5) When the driver is installed, the pop-up installation is complete the dialog box, click "Finish" button to complete the driver installation (Figure 1-13).

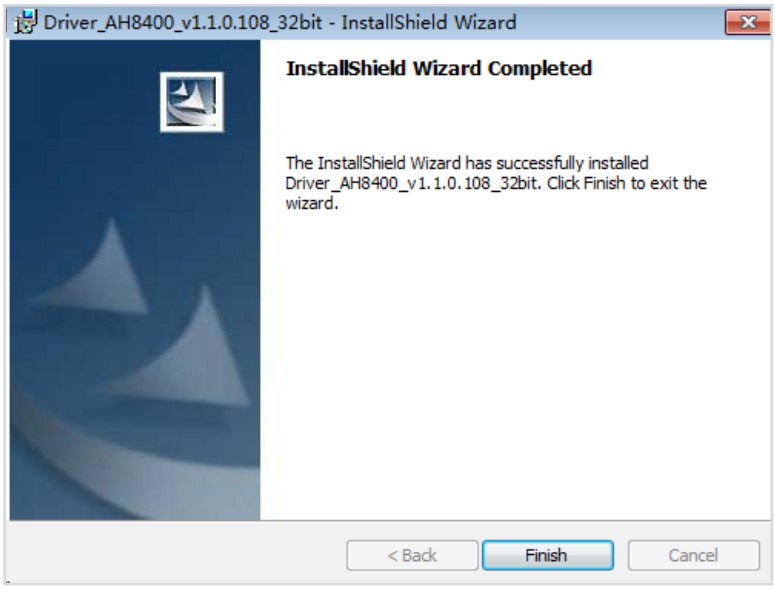

Driver_AH8400_v1.1.0.108_32bit - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed Driver_AH8400_v1.1.0.108_32bit. Click Finish to exit the wizard.
< Back
Finish
Cancel

Figure 1-13

1.4 Install the Codecs for Capture Cards(for HVR3200)

(1) Double click the icon which is named "limited to intranets etc. (version number). Exe", the dialog box which is titled "Codecs – InstallShield Wizard" will pop-up, click "Next" button (Figure 1-14).

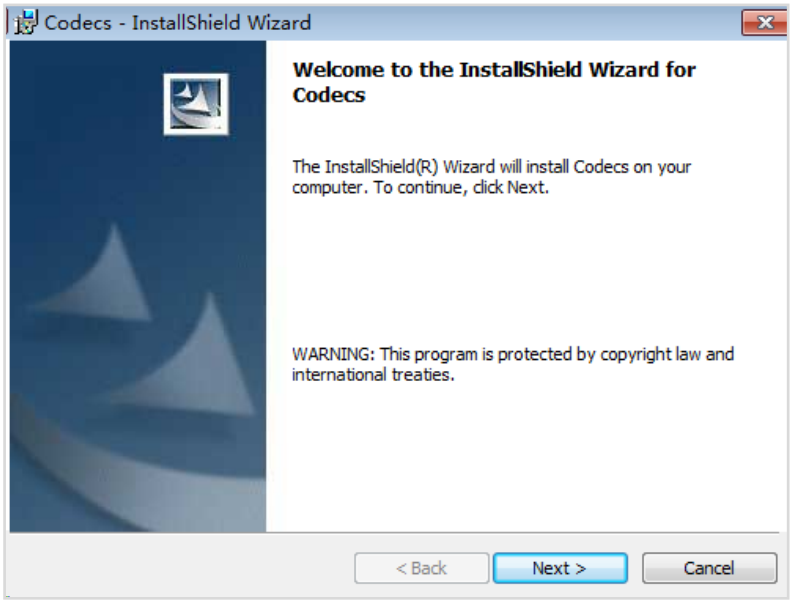

Codecs - InstallShield Wizard
Welcome to the InstallShield Wizard for Codecs
The InstallShield(R) Wizard will install Codecs on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

Figure 1-14

(2) Pop-up "Customer Information" dialog box, enter your user "User Name" and "Organization", and select which user(s) you will install for “Anyone who uses the computer (all users)" or "Only for me (your user name)" in two ways), click on the "Next" button (Figure 1-15).

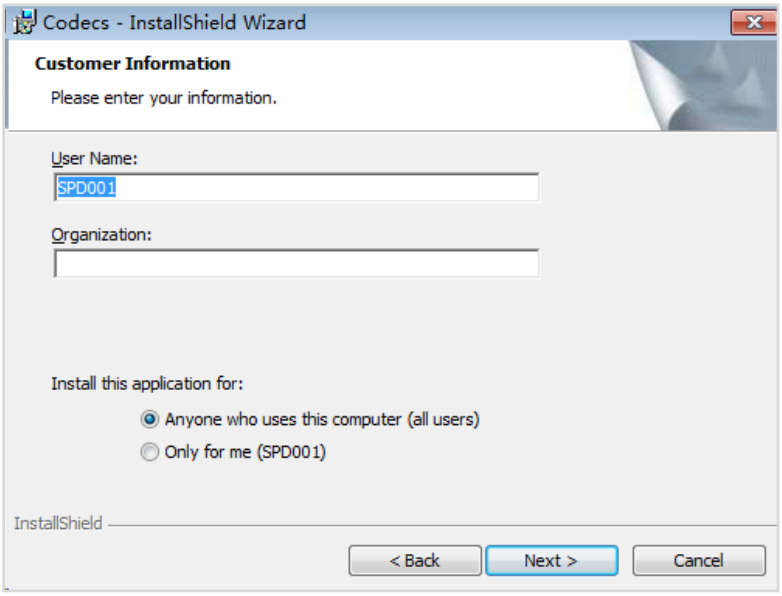


Figure 1-15

(3) Pop-up "Codecs installed" dialog box, click "Install" button (Figure 1-16).

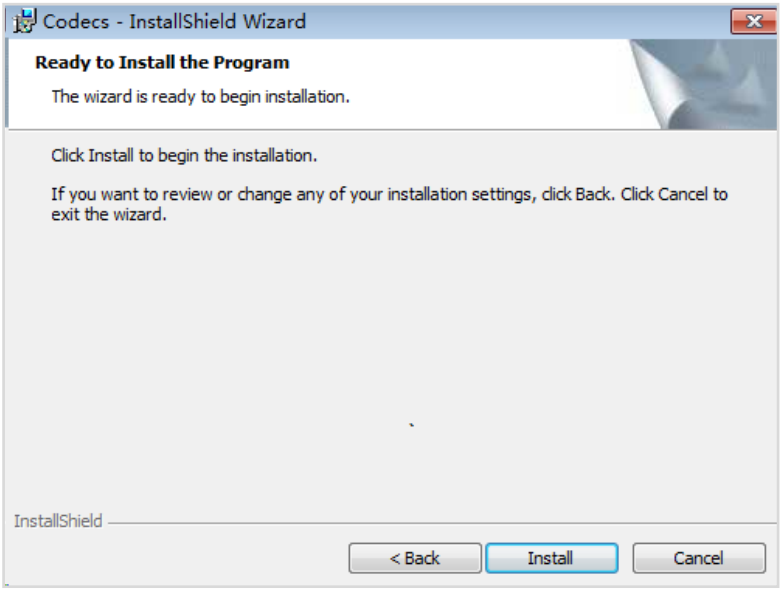

Codecs - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

Figure 1-16

(4) Subject to the Codecs installed, pop the installation completion dialog box, click on "Finish" button to complete the Codecs installed (Figure 1-17).

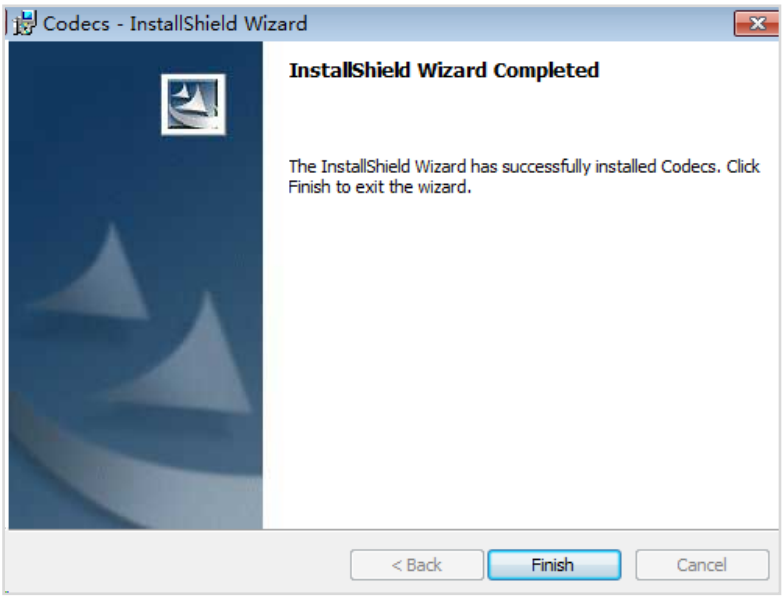

Codecs - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed Codecs. Click Finish to exit the wizard.
< Back
Finish
Cancel

Figure 1-17

1.5 Uninstalling HVR (for HVR3200/NVR3200) and Capture Card Driver(for HVR3200)

Click "Start" menu, select "Settings" -> "Control Panel" -> "Add or Remove Programs", pop-up list of programs in the list, select "HVR",“Driver_AH8400_v1.1.0.101_32bit”and "Codecs" icon (Figure 1-18), click on "remove" button, pop-up "Add or Remove Programs dialog box, click" Yes "button to start the uninstall operation.

Note: Even the HVR software is removed if some configure files are still saved in the folder, “{System Drive}:\Program Data\HVR”. Unless you remove them, the old configuration will be automatically applied when you re-install the HVR software.

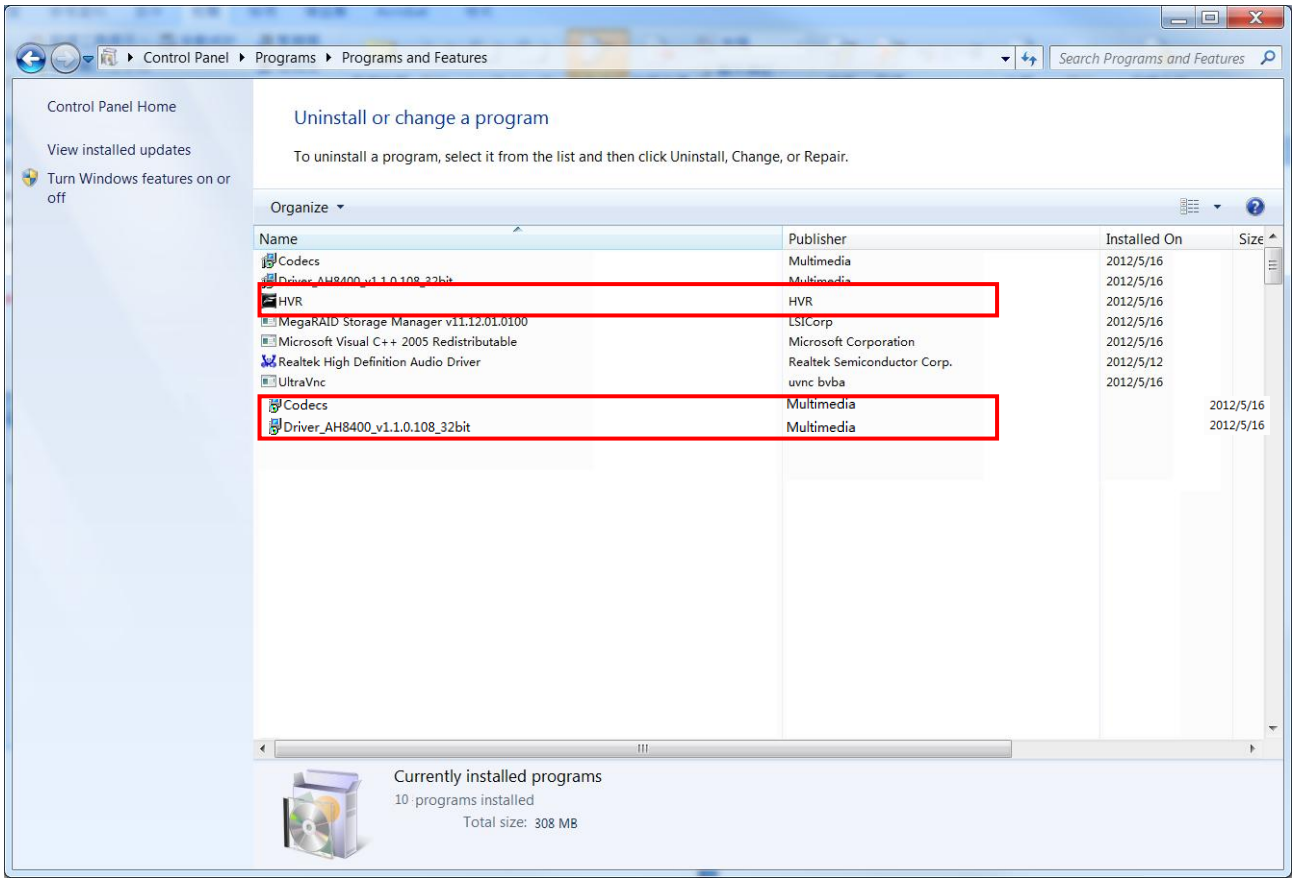


Figure 1-18

2 Instructions for Use

2.1 Login

Click the "Start" menu; select "Programs" -> "HVR", and click on the "HVR" icon to run the HVR software.

2.2 Log Off and User Switching

In the main page of HVR software, click on the icon "Exit AP ", which is located at the lower right corner, the select box "Switch User" or "Exit" will pop-up. Click the "Exit" to exit the HVR system (log off the HVR software), a dialog box which is titled "Exit" will pop-up (Figure 2-1) and you will need an authorized account to exit system. In the "Exit" dialog box, you may click the button "Cancel" or the icon " " to give up exiting system. In the other hands, click the "Switch User" will let you switch to another authorized account; you may input the "User Name" and "Password" via the physical keyboard or via the virtual keyboard which is pop-up by clicking the "Keyboard" button.

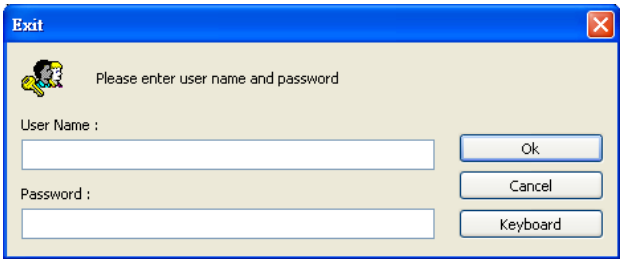


Figure 2-1

2.3 The Main Page

The first page after the start of the HVR software, (Figure 2-2), users are able to watch the real-time videos on this page, users also can check the system event log, HW status or control PTZ (pan/tilt/zoom) the speed dome cameras.

- **A** Real-time preview video
- **B** Latest event logs
- **C** Click to see software version and copyright announcement.
- **D** (Right to left) Hard drive information, status of back-up, status of email sending, status of SMS message sending, current log-in account
- **E** (Upper line) System date/time
  (Lower line) Hardware status
- **F** (Right to left) Live view layout setting, search event log, eMap, data back-up, playback, setting
- **G** 8 directional pan and tilt control
- **H** Enable/disable sequence mode
- **I** Speed setting for PTZ
- **J** Audio volume for channel audio listen
- **K** (Right to left) HVR minimize, close HVR
- **L** Alarm audio on/off

Figure 2-2

(1) Double-clicking any video will enlarge this channel into a single-cannel layout and re-double-clicking it will let the videos restore to the original layout.

(2) To drag and drop the videos, users are able to re-arrange the channel display order.

(3) Real-time video snapshot: Move the mouse cursor to the upper left corner of any video window, the moues cursor will become a “camera” icon. Users are able to take snapshots by clicking the “camera” icon. Users are also able to open the “Snapshot Viewer” to browse the snapshots. To open the “Snapshot Viewer”, users may move the mouse cursor in any video window and click the right button of the mouse, and then select the “Snapshot Viewer “item.

(4) Click the right button of the mouse on a channel’s video window, users are able to do other operations like: “Reconnect”, “Manual Record” (start / stop manual recordings), “Digital PTZ” (digital zooming), “Open Audio” (turn on / turn off the audio stream), “Start Talk” (enabled /disabled the 2-way audio), “Start Audio Broadcast” (turn on / turn off the broadcasting), “Snapshot Viewer” (snapshots browsing), “Popup window”, “Duplicate”, “Remove”, and switching to the specific video page.

- Manual recording: Users can manually start/stop recording despite of the current recording mode of that channel and search in the playback page. More detail description about this, please kindly refer to the Section 6.1. About the duration of an event, it will be defined as the timespan from the starting to the stopping of the

manual recording.

- Focal Windows: Users can select this item to open another pop-up video window for an important channel and all of the right-mouse-button functions for the real-time videos are also available.
- Switching to the specific video page: While the number of the real-time videos is more than the max videos of the current video layout, the HVR system is capable to automatically paging these channels.

2.4 About the HVR System Version

To click the icon HYBRID Video Recorder which is located at the upper right corner of the main page, an "About" Dialog Box will be popped out. Users are able to get the information about the version number and copyright. (Figure 2-3)

Figure 2-3

2.5 System Information

In the main page, a set of indicator about the system information is located at the right part of the main page (Figure 2-4). Users can move the mouse cursor on any indicator icon and a tooltip will popped out (except the temperature and loading of CPU). All status of the specific system information (storage of cameras, backup, email / SMS, account, system time, CPU temperature, CPU loading, and the status of fans) will be shown in the tooltip.

Note: The status of fan will have notification once one of the system fans break down.

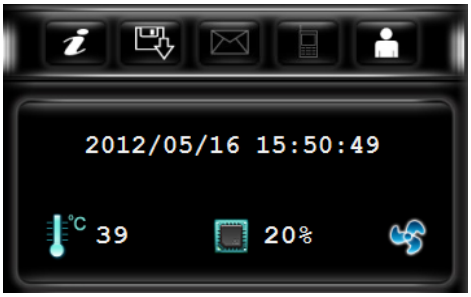


Figure 2-4

2.6 Two-way audio and broadcast control

Select a real-time camera video, click the right button of the mouse, users are able to create a voice chat between the HVR system side and the selected camera side by clicking the item, “Start Talk”. If users are going to create audio broadcasting, users may click the item, “Start Audio Broadcast” which is listed the content menu.

Note: Only one voice communicate function can be turn on at the same time. A specific icon (for “2-way audio”, for “Audio Broadcast”) will be shown at the lower-left Conner of the specific channel video.

CDC-3 12/07/04 17:11:42
CDC-2 12/07/04
HYBRID
Video Recorder
2012/07/04 17:11:42
53
34%
Zoom
Focus
Preset

Figure 2-5

2.7 Digital Zooming

Select a real-time camera video, click the right button of the mouse, users are able to turn on / turn off the digital zooming function of the specific channel video by clicking the item, “Digital PTZ”. In the enabled mode of Digital PTZ (Zooming), a “PiP (Picture-in-Picture) Window” which is marked with a red border will be shown at the lower-right corner of the specific channel video (Figure 2-6). This “PiP Window” can help users to know the relative position and size about the zooming window. Users can change the scale of zooming by scrolling the wheel of the mouse. Users are also able to change the displaying region by dragging and dropping.

Figure 2-6

2.8 Snapshot Browsing

Select a real-time video and right click of the mouse, users are able to open a window to browse all manual snapshot images by clicking the item, “Snapshot Viewer”. Users are able to browse recorded files with a specific channel no. and date, (Figure 2-7). By double-clicking one of the thumbnails which is located at the lower-left corner of the “Snapshot Viewer”, users can switch it into full-screen view, and by double-clicking the full-screen image will restore it back to the original view.

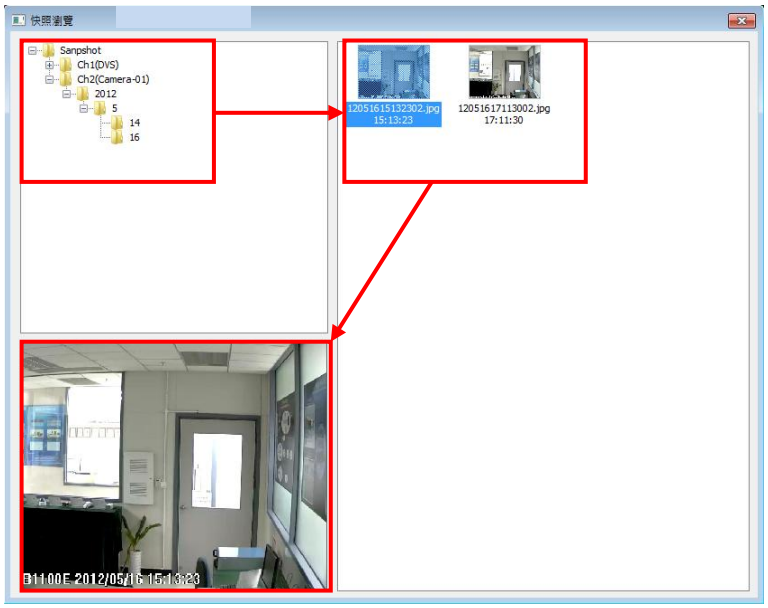


Figure 2-7

2.9 Speed Dome Camera Control

(1) In the main page, a set of control button is provided which is located at the right part of the main page (Figure 2-8). Users are able to control the direction, zooming scale, focus, preset positions, and the speed of speed dome cameras.

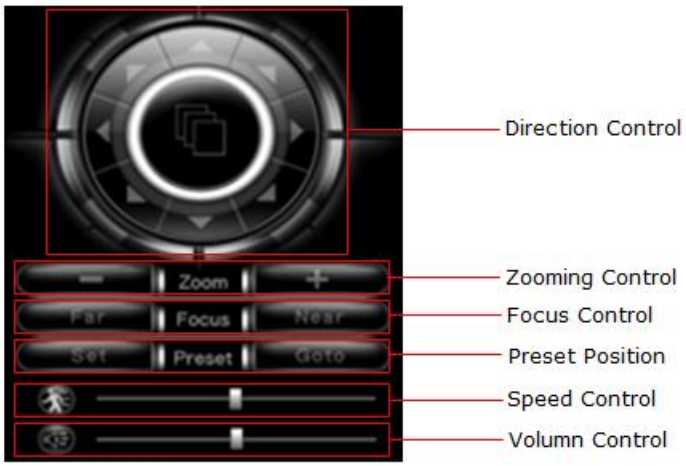


Figure 2-8

- DIRECTION: Pan and tilt in 8 directions and patrolling control.
- ZOOM: Press "+" forward scaling to reduce the monitoring region (Zoom-in), press the "-" can zoom back to enlarge the monitored area (Zoom-out).
- FOCUS: Focus function of speed dome cameras, press the "Near" is about the lens focal point closer to the "Far" will be a focal point to pull away.
- PRESET POSITION: Press the "Set" to create a “Preset Position”, press the "Go to" to move to a “Preset Position”.
- SPEED: The speed setting of moving for speed dome cameras, the right to accelerate and the left compared to slow down.
- VOLUME: Dragging the bar will change the volume of the camera’s live audio. Press on the button will turn of alarming audio if any.

(2) The following steps will guide you to set the automatic cruise of the speed dome or cameras with a PT head:

A. Enable the PTZ control functions for a PTZ camera:

(A) Open the “Configuration” page.

(B) Select a specific Speed Dome Camera item in the IP Camera (or Camera) tree list.

Note: If the speed dome camera is connected to a capture card, it will be listed under the node, “Camera”, (Figure 2-9). Otherwise, it will be listed under the node, “IP Camera”, (Figure 2-10).

(C) Switch tab to “General”, and check the “PTZ Enable”.

(D) Users will also need to set the following setting for a “Camera”: “Protocol”, “Port”, “Baud Rate”, “Address ID”, and "Home Position" (Figure 2-9). For an “IP Camera”, users will just need to set “Protocol”, “Baud Rate”, “Address ID”, and "Home Position” (Figure 2-10).

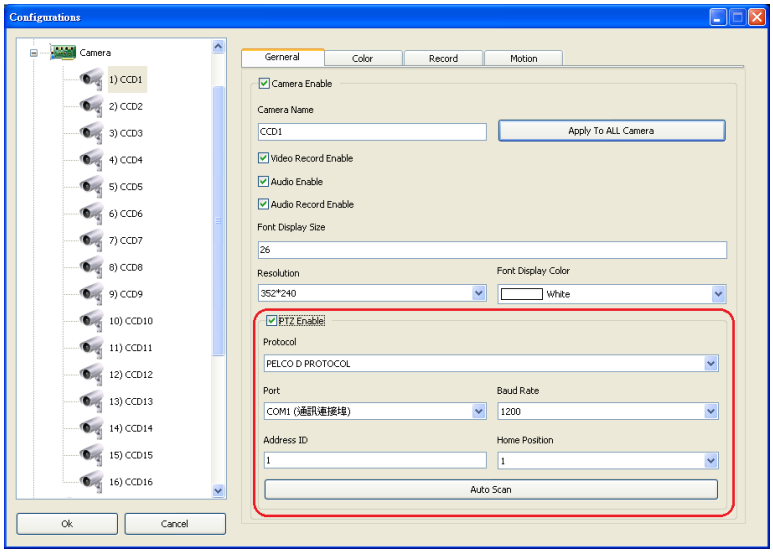


Figure 2-9

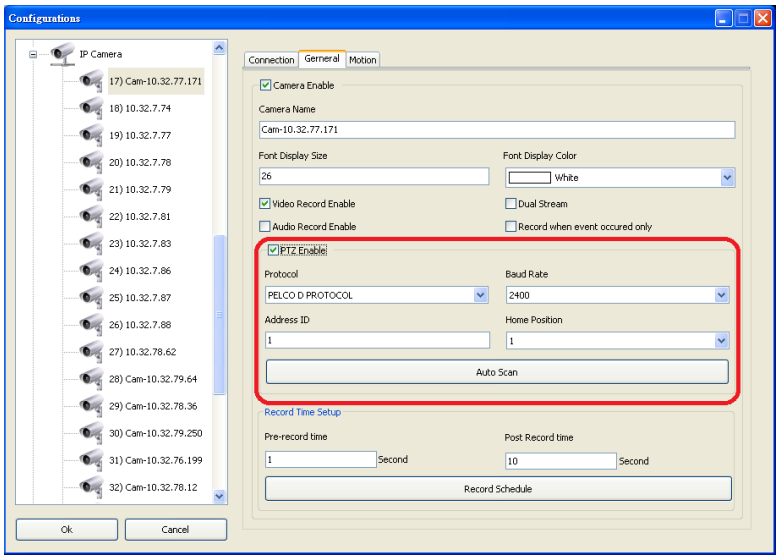


Figure 2-10

B. Set the preset point (Figure 2-11)

(A) Adjust the PTZ angle of the cameras to focus on a specific range which you want to monitor. (Figure 2-11)

(B) Click on the "Set" button and a dialog box which is named “PRESET” will be pop-up.

(C) Select the “Preset” number and input an appropriate description for the specific “Preset Position”. Click the button “Set Preset” to create a preset position or click column “Descriptions” for updating descriptions for this preset point.

(D) Click the button “OK” to complete the setting.

Note: Repeat the steps (A ~ C) can be set more “Preset Positions”. The maximum number of the “Preset Position” is 16.

Figure 2-11

C. Setup automatic scan (patrolling)

(A) Open the “Configuration” page.

(B) Select a specific PTZ Camera item in the IP Camera (or Camera) tree list.

(C) Switch tab to “Generate”, and click the button, “Auto Scan”, and a dialog box “Auto-Scan Setting” will be pop-up.

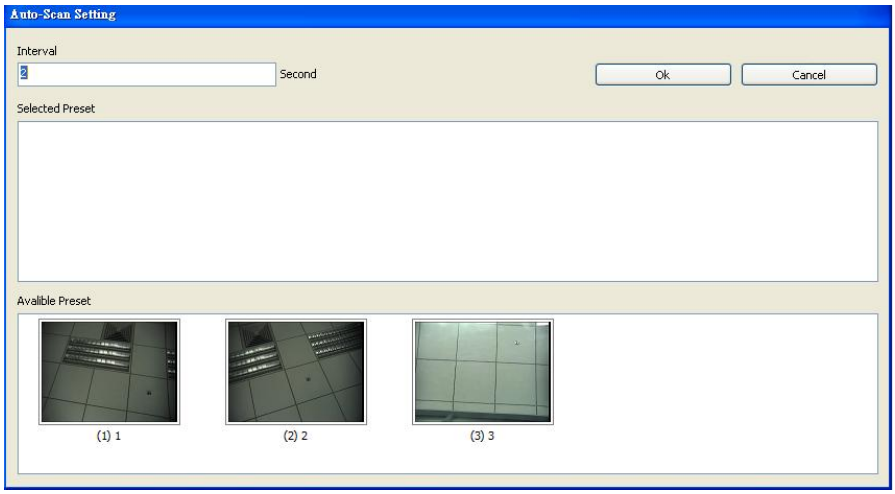


Figure 2-12

(D) In the “Auto-Scan Setting” dialog box, users can change the interval time in seconds.

(E) Users are also able to drag and drop one or some preset position(s) from the “Available Preset” to the “Selected Preset”.

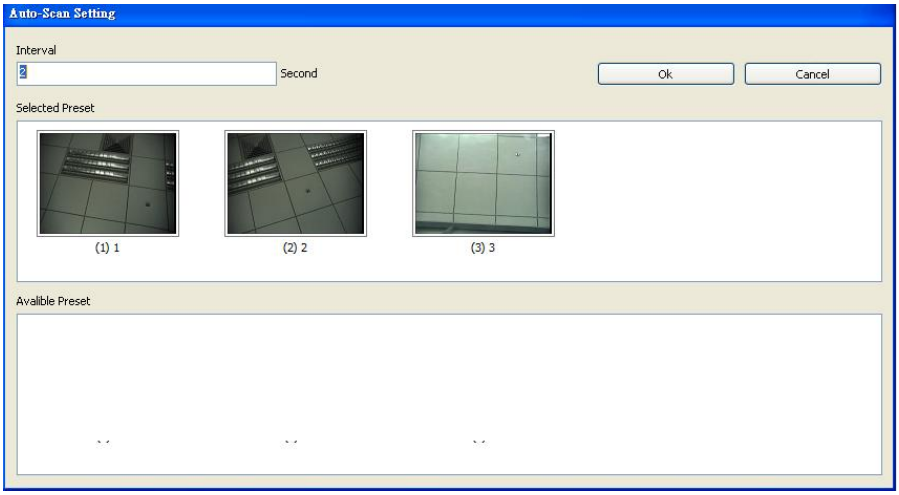


Figure 2-13

(F) After completing the above steps, click the "OK" button.

(G) Click " " button, the “Auto Scan” will be presented.

2.10 Screen Layout

In the main page, click " " icon to pop-up a layout box. Users can select a specific layout (1 / 4 / 8 / 9 / 10 / 13 / 16 / 17 / 24 / 25 / 33 / 36 / 49 / 64 in a page) from this layout box. Users can also set specific real-time channel video to "full screen", or change every video displayed by "group" or "sequence" playback.

2.11 Multi-screen Displaying

Each real-time channel video of secondary monitors of HVR also provides the same right-clicking functions as real-time channel video of the primary screen. Users are also able to drag and drop any real-time channel video between each monitor.

3 System Settings

3.1 System Configurations

Click the button "Setup " and a dialog window which is titled “Configurations” will pop-up. Users are able to set system configurations as the following:

(1) Disable the Windows key: To prevent users accessing other applications / windows. Users are only able to operate in HVR system unless HVR system is quitted by an authorized permission. The toolbox (minimize,) will also be disabled.

(2) Shutdown the system when program exit: Once this setting item has been checked, the computer system will be automatically shut down (power-off) after the program is exited.

(3) Watch Dog: To enable the hardware watchdog function which comes with the capture card (SC390N16)

Note: HVR System provides two solutions for watchdog, “Software Watchdog” and “Hardware Watchdog”:

- ***Software Watchdog: Once the HVR system has not responded or been terminated by any exception, as long as the operation system is still working, it will re-start the HVR system.***
- ***Hardware Watchdog: Once an exception occurred and the HVR-Restarting of the “Software Watchdog” failed, the “Hardware Watchdog” will reboot the HVR computer system if the “Watch Dog” function has been checked and the RESET-PIN cables of capture cards have been correctly connected.***

(4) Save Interval: This value defines the file length (in minute) of each video data file. The default value is 5 minutes and 8 types of length (1 / 3 / 5 / 10 / 15 / 20 / 25 / 30) are available. For example, if this configuration has been set to 3 minutes, HVR system will create a new recording data file every 3 minutes (per each available channel).

(5) Video Standard: PAL and NTSC are both available for this HVR System.

(6) Auto Login: If this configuration is enabled, the HVR system will be login with the selected account after each starting of the operation system. The installation will automatically create a default account (with an “Administrative” permission) whose user name is “Admin” and the password is “1234”, users will need to login with an authorized account and password at each system starting, if this configuration has not been checked.

(7) Enable Remote Reboot: If this configuration is enabled, any HTTP connection with the input password will trig a system rebooting. Ex.:

A. http://{HVR IP address}/ Reboot.cgi
B. Input the correct password.
C. The operation system has been rebooted.

(8) Reboot: Users can configure the HVR system to automatically reboot on a weekly day and time. If this configuration is enabled, please do not set any password for the default login account unless you do not want the HVR system be automatically logged in after the HVR system rebooting.

Note:

- ***The configuration of "Watch Dog" is only available while there is any capture card installed correctly.***
- ***Any change in this Configurations Page won't be saved until the button "OK" has been clicked.***

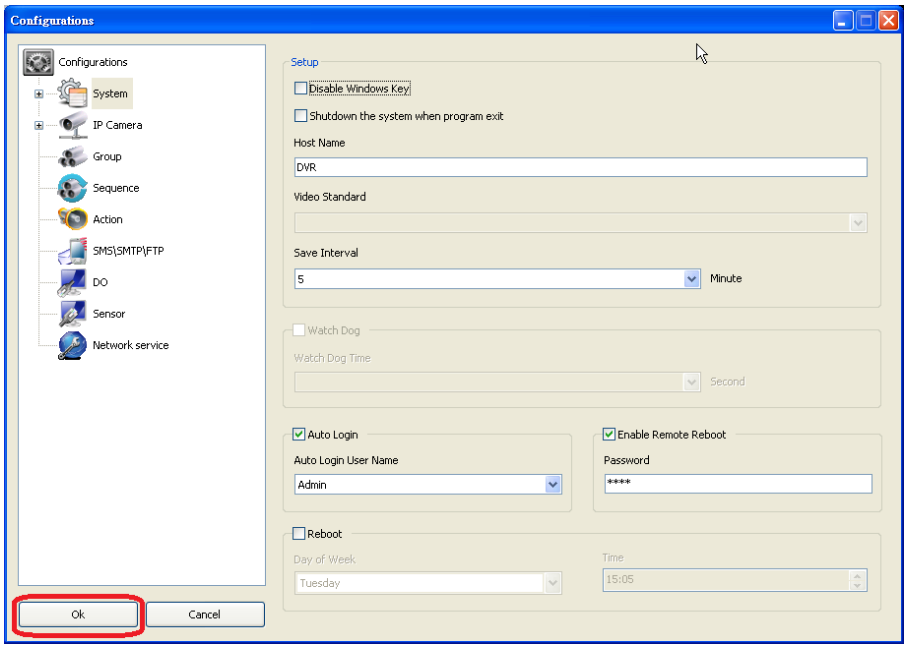


Figure 3-1

3.2 Storage Setting

To add, modify, delete storage setting groups for streaming data file. Instructions:

Click the button “Setup",) and a dialog window which is titled “Configurations” will be popped out. Click "System” / “Storage” in the tree view item, (Figure 3-2) to adjust the following configurations:

(1) Max. Event Record Days: The number of days (1 ~ 365) for the video recording files saving. Once files are kept longer than the day user set, it will be deleted automatically by the HVR system.

(2) Snapshot folder: The folder for saving snapshot pictures.

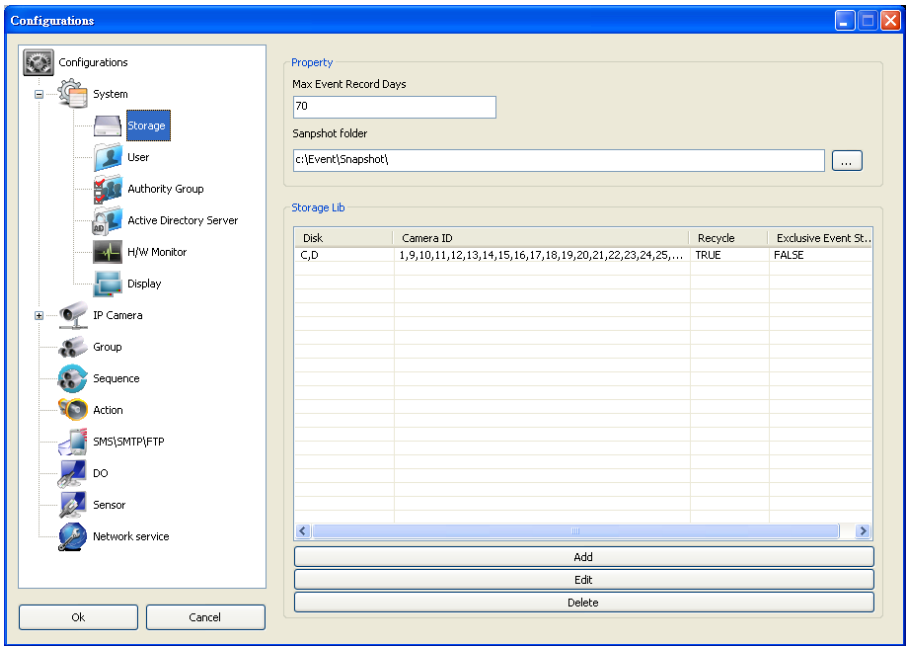


Figure 3-2

(3) Add Storages

- Storage Media Setting: Set a path for recording data files saving. To click the "Add" button, a dialog box “Storage Device" will pop-up (Figure 3-3). To check the items of the “Storage” table to assign partitions to be storages and to check the items of the “Information” table to assign cameras’ streaming to be stored in this storage group.

- Recycle: If this item is checked, once the available spaces of the storages are less than the settings, the oldest recording files will be deleted automatically by the HVR system with the deleting unit of one hour.

- Exclusive Event Storage: If this item is checked, the recording files would be only saved while any event occurred.

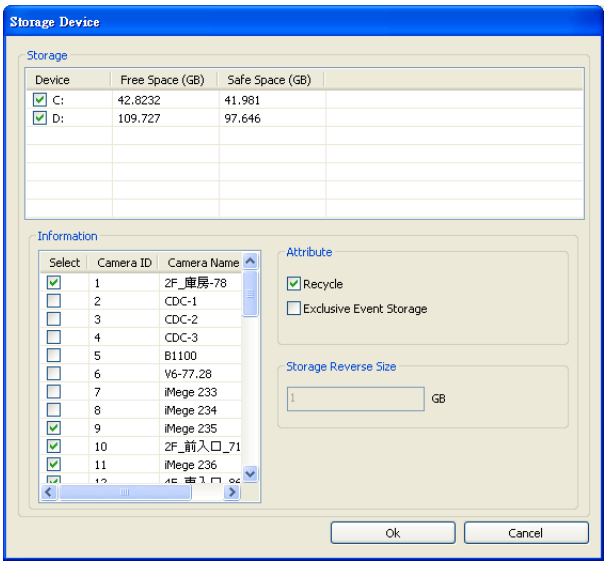


Figure 3-3

(4) Modify Storages

Select one of the “storage device” in the “Storage lib” which you want to modify (as Figure 3-2), and then click the “Edit” button, a dialog box “Storage Device” will pop-up (Figure 3-3). Modify the settings (just like the “Instruction (3): Add Storages” described) and click the “OK” button finally to apply settings.

(5) Delete Storages

Select one of the “storage device” in the “Storage lib” which you want to delete, and then click the “Delete” button, a confirm dialog box “Storage Device” will be pop-up (Figure 4-4). Just click the “Yes” button to process the deleting or click the “No” button to back the last page.

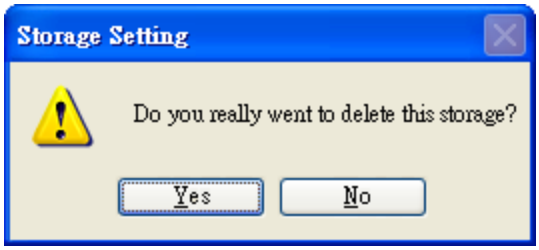


Figure 3-4

Note: For each camera which is enabled to record, please make sure that each camera is assigned storages unless it doesn't has to be recorded.

3.3 User Account Management

To add, modify, delete "User" and "Authority Group". Instructions:

It is recommended to create some authority groups before creating users, and then assign users to the specific authority groups. To do these, you will need to click the button "Setup ", and a dialog window which is titled "Configurations" will be pop-up. Click "System" / "Authority Group" in the tree view item, (Figure 3-5) to adjust the following configurations:

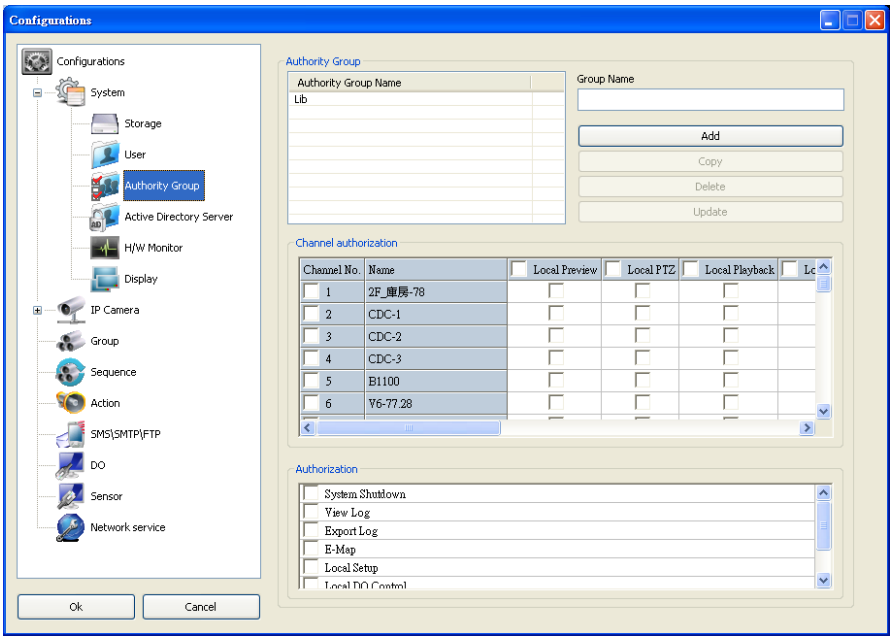


Figure 3-5

(1) Add Authority Groups

The Authority Groups can be regarded as the classification of user privileges; users can achieve permissions management through inheritance from different Groups. Once the permissions of an Authority Group are changed, the permissions (channel permissions, system privileges) of all the users that inherited from the Authority Group are also changed.

If a specific Authority Group is deleted, all the users that inherited from the Authority Group are also deleted unless there is any the user has been assigned any permission individually and it will be remained.

There is a special Authority Group, which is named "Supervisor" and has been already

created by the HVR system, which won't be listed in the "Authority Group" page but the "Authority Group" of the "User" page.

To create / modify an Authority Group, please refer to the following steps (Figure 3-5):

A. Enter the "Name" for the Group in the "Group Name" field.

B. Set Permissions for Channels – In the "Channel authorization" table, users are able to assign permissions independently for each channel. The permissions include:

(A) Local Preview: Be authorized to open the local real-time video. This permission is also required for browsing the local snapshot pictures.

(B) Local Playback: Be authorized to operate local playback.

(C) Local PTZ: Be authorized to operate local PTZ controlling. The permission of "Local Preview" is required to authorize this permission.

(D) Remote Preview: Be authorized to preview the video this channel remotely. The right of browsing snapshot remotely will also be granted.

(E) Remote Playback: Be authorized to operate the playback remotely.

(F) Remote PTZ: Be authorized to operate the PTZ controlling remotely. But the permission of "Remote Preview" has to be granted first in order to enable this permission.

(G) Local Data Export: Be authorized to local export data (Recording data backup, save snapshot, print snapshot, saving video as AVI files). But the permission of "Local playback" has to be granted first in order to enable this permission.

(H) Remote Data Export: Be authorized to export data (Recording data backup, save snapshot, print snapshot, saving video as AVI files) remotely. But the permission of "Remote playback" has to be granted first in order to enable this permission.

Note: Users are able to check all the permissions by checking the check box which is nearby the channel number. Users are also able to check all the channels to grant a specific permission by clicking the check box which is near by the permission.

C. Set Permissions for System – In the "Authorization" table, users are able to grant permissions for HVR system operating. The permissions include:

(A) Close the HVR: Be authorized to exit the HVR system.

(B) View Log: Be authorized to browse the event log of the HVR system.

(C) Export Log: Be authorized to export (saving as, printing) the event log of the HVR system.

(D) E-Map: Be authorized to navigate the E-Map of the HVR system.

(E) Local Setup: Be authorized to change the configurations of the HVR system.

(F) Local DO Control: Be authorized to control the digital output devices of the HVR

system.

(G) Remote Setup: Be authorized to change the configurations of the HVR system remotely.

(H) Remote DO Control: Be authorized to control the digital output devices of the HVR system remotely.

D. Duplicate Authority Groups

If you want to create an Authority Group which is similar to any existing Authority Group, you can duplicate a whole new Authority Group from the existing one first, and then modify all the settings different for the new one. The steps as the following:

(A) Tap the existing authority group you want to duplicate.

(B) Enter a new name for the new Authority Group in the “Group Name” field.

(C) Click the button “Copy”, and a new Authority Group would be successfully created (duplicated).

(D) Tap the new Authority Group which is just been created, adjust the permission settings of channels and system.

(E) Click the button “Update” to complete and apply the operation.

E. Update Authority Groups

To modify an existing Group, the steps as the following:

(A) Select the item which is to be modified first

(B) Adjust the permission settings of channels and system.

(C) Click the “Update” button to apply the setting.

(2) Add a user (Figure 3-6)

Each user must be inherited at least from one Group (or more than one Group). All of the inherited permissions are granted (union operation) and cannot be removed. A user is not only granted with inherited permissions but can also be granted with non-inherited permissions. Non-inherited permissions can be granted or removed to any users. The inherited permissions do not affect the non-inherited permission unless the user is operating actions which involved non-inherited permissions.

A. Enter the Basic Information of User (in the “Base Data” tab)

(A) User Name: The name of account. Alpha letters, numbers, special symbols (1 ~ 50 characters) are accepted.

(B) Password: The password of account, 1 ~ 50 characters are accepted.

(C) E-Mail: The e-mail address of the user.

(D) Phone number / Mobile Phone Number: Only numbers (0 ~ 30 characters) are accepted.

(E) Once you complete the above items, please select at least one “Authority Group” in the “Authority data” tab, and then click the “Add” button to create a new account.

(F) You can select an account which is listed in the table “Authority Information” and then modify settings for updating.

(G) You can also select an account which is listed in the table “Authority Information” and click the button “Delete” to delete it.

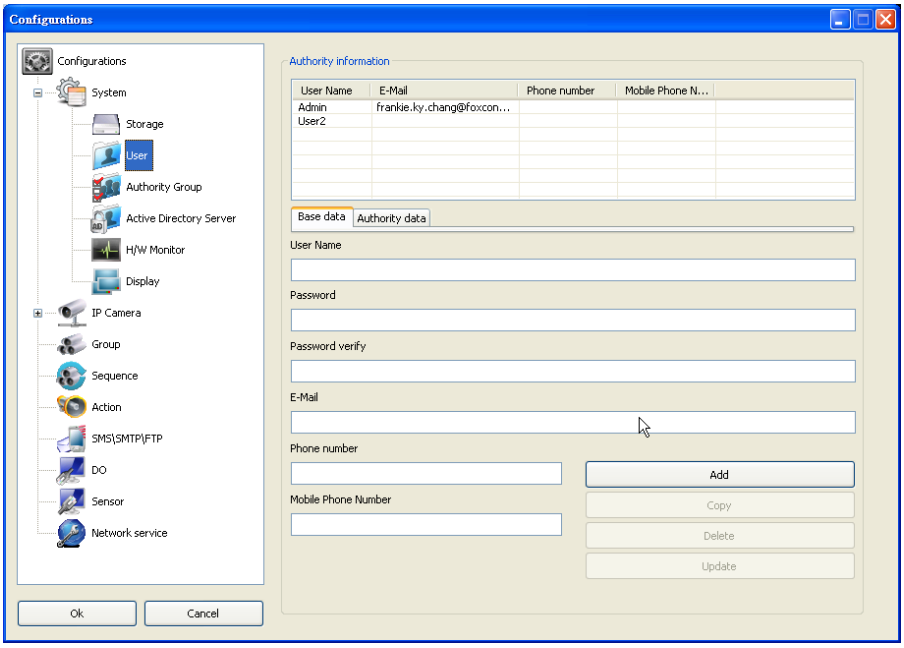


Figure 3-6

B. Set Information of Permissions (Figure 3-7)

(A) Select inherited permissions of Authority Group

Check one or more (at least one) Authority Group from the “Authority Group”.

(B) Grant additional non-inherited permissions

Check the non-inherited permissions from the “Channel Authorization” and “Authorization”.

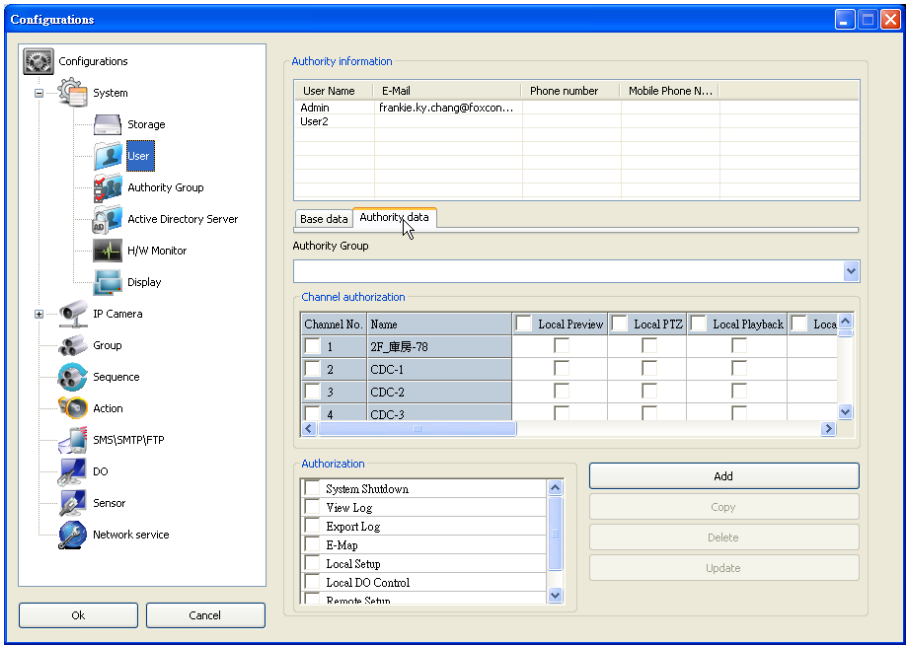


Figure 3-7

(C) Duplicate accounts

If you want to add a new account by copying permissions and other settings of a current account, select the account which you want to copy, modify the user name, click the button "Copy", you can create a new account.

(D) Delete accounts

Select the user which you want to delete, click the button “Delete”, and then click the button “Yes” in the confirmation dialog box (Figure 3-8) to confirm the deleting.

Figure 3-8

(E) Update accounts

Select a user which is to be updated, modify the information and click the button "Update" to apply the change.

(3) Set Active Directory Servers

Once the HVR system is successful to login an Active Directory Server, the HVR system can get the permission groups of the specific Active Directory Server. Once the mapping of permission groups between the Active Directory Server and the HVR system is completed, the users are able to login the HVR system to process any authorized operation.

If the Active Directory is enabled, remote services (remote real-time browsing, remote video playback, etc.) also provide for the users which is logged with an Active Directory Server User. But if the authentication mode is set to LDAP, it is no acceptable to login in remotely with any local HVR user account.

A. Enable Active Directory

B. Enter Required Information for the Active Directory Server (Figure 3-9)

(A) Domain

Enter a domain name or an IP address for the Active Directory Server.

(B) Remote Authentication Mode

Local authentication: You have to log in for any remote service with an account of local HVR server.

LDAP authentication: You have to log in for any remote service with an account of an AD server account.

(C) Account

User accounts for logging in to the Active Directory server. This field is not required if the HVR system is already login the Active Directory Domain.

(D) Password

The password of the account (described above, “(D) Account”). This field is also not required if the HVR system is already login the Active Directory Domain.

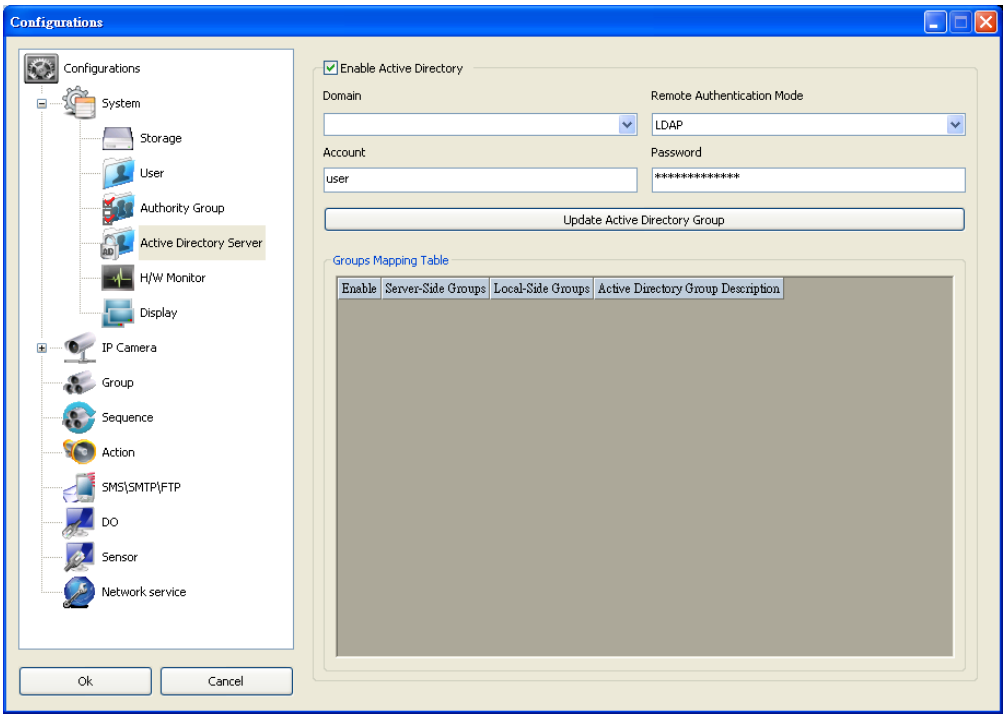


Figure 3-9

C. Apply Setting for Active Directory Group

Click the button “Update Active Directory Group” to apply the above setting.

D. Groups mapping table

(A) Enable:

If the check box is checked, the specific row of the mapping is activated. Otherwise, it is not activated.

(B) Server-Side Groups:

Define which server-group should be mapped.

(C) Local-Side Groups:

Specify which local-group to be mapped.

(D) Active Directory Group Description:

Please fill in a description for the mapping relationship.

3.4 Hardware Monitoring

The HVR system provides monitoring of the CPU temperatures and fan status. Instructions: Click the button “Setup" , and a dialog window which is titled “Configurations” will be pop-up. Click the tree view item, "System” / “H/W Monitor” (Figure 3-10), to adjust the following configurations:

(1) Max CPU Temperature: The high-temperature warning for CPU. The default value is 80.

(2) Temperature Unit: Celsius (℃) or Fahrenheit (℉).

(3) H.D.D. S.M.A.R.T Monitor: Enable / Disable for the hard drives with S.M.A.R.T. monitoring;

(4) Fan Speed: If this item is checked, the system will automatically grab real-time speed of the fan;

(5) System Fan Monitor: If this item is checked, the HVR system will alert users while any speed of fan is less than the setting value.

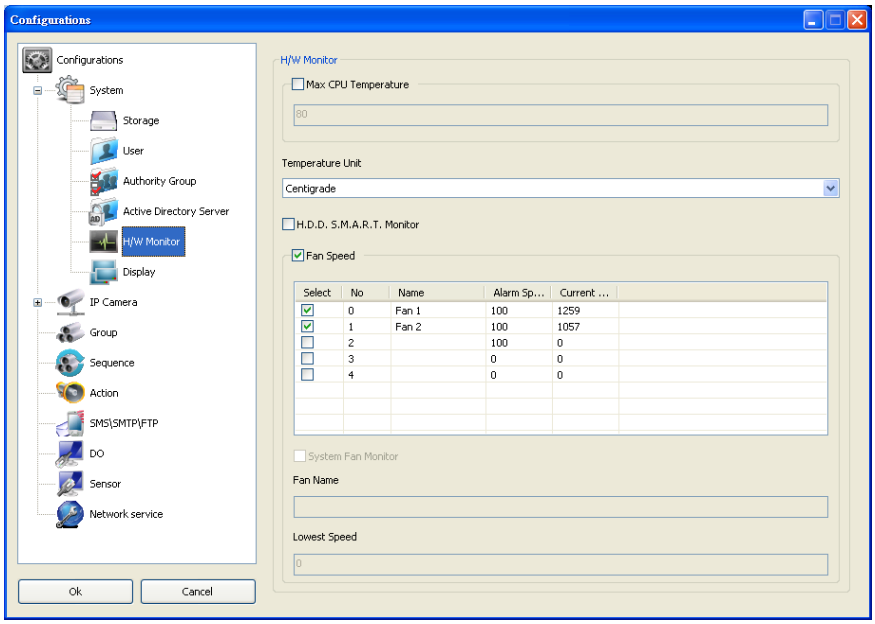


Figure 3-10

3.5 Displaying Setting

This section described how to configure the multi-screen. Instructions:

Click the button “Setup" and a dialog window which is titled “Configurations” will be pop-up. Click the tree view item, "System” / “Display” (Figure 3-11), to adjust the following configurations:

(1) Event Monitor: Select a screen to display the events while any event occurred.

(2) Display Monitor: Select the quantity of monitor you want to display

(3) Monitor Display Channels: Set the maximum number of channel to be displayed for each screen. The available numbers are 1, 4, 8, 9, 10, 13, 16, 17, 24, 25, 33, 36, 49, and 64.

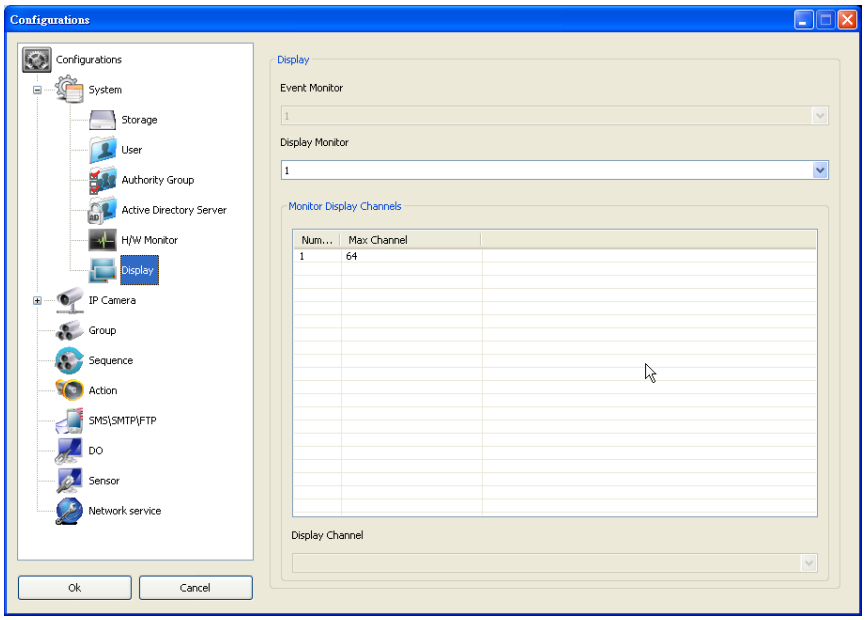


Figure 3-11

3.6 Analog Camera Management

Note: It is recommended to insert the Capture Cards before to add any cameras.

If not, users could need to manually adjust the channel ID of IP Cameras because the IDs of the first few channels could be occupied by capture cards. The detail steps are:

Click the "Settings" --> "IP Camera" --> "Connection Setting", and then assign the "Camera ID".

Click the button "Setup" and a dialog window which is titled "Configurations" will be pop-up. Click the tree view item, "Camera" (Figure 3-12), to adjust the following configurations:

(1) "General"

A. "Enable Camera": When checked, the channel is enabled in this system.
B. "Camera Name": A name or description for the camera.
C. "Video Record Enable": Enable or not to record the video.
D. "Audio Enable": Enable or not the audio of the camera.
E. "Audio Record Enable": Enable or not to record the audio.
F. "Font Display Size", "Font Display Color": The font size and font color settings for the OSD on the real-time video.
G. "Resolution": Set the video resolution of the camera.
H. "PTZ Enable": Enable or not the controlling of PTZ (pan/tilt/zoom).
I. "Protocol": To specify a protocol of the PTZ Controlling. The available protocols are: Pelco-D, Pelco-P, MERIT LI-LIN, DynaColor, Panasonic, and BOSCH.

"Port": the default setting is "COM1".

"Baud Rate": The available settings are: 1200, 2400, 4800, 9600, 14400, 19200, 28800, 28400, 38400, 56000, 57600, and 115200.

"Address ID": For devices identification.

"Home Position": There are 16 positions are available for the Home Position.

Note: The interface (RS-485 / 232) is needed to control an analog PTZ camera.

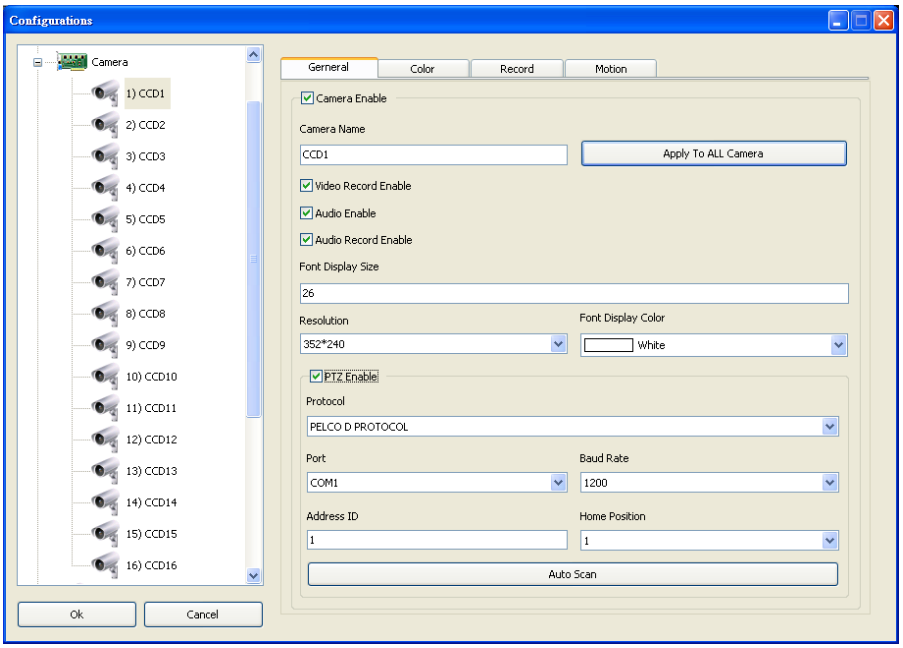


Figure 3-12

J. “Apply To ALL Camera”: If you need to apply a general camera settings to all cameras, you can click this button and then a confirmation dialog box will be pop-up (Figure 3-13), you can specify which type of settings you like and click the button “OK” to process.

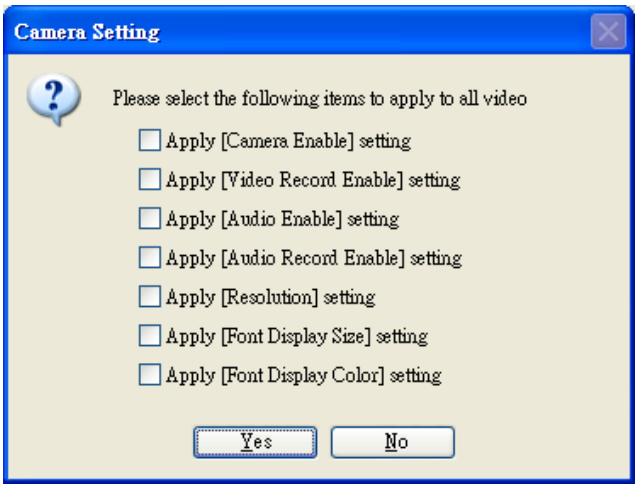

Camera Setting
Please select the following items to apply to all video
Apply [Camera Enable] setting
Apply [Video Record Enable] setting
Apply [Audio Enable] setting
Apply [Audio Record Enable] setting
Apply [Resolution] setting
Apply [Font Display Size] setting
Apply [Font Display Color] setting
Yes
No

Figure 3-13

(2) ”Color”

A. “Color Mode”: You can configure the following: “Hue”, “Contrast”, “Brightness”, and “Saturation”. The HVR system provides 7 kinds of settings for users. (Figure 3-14)

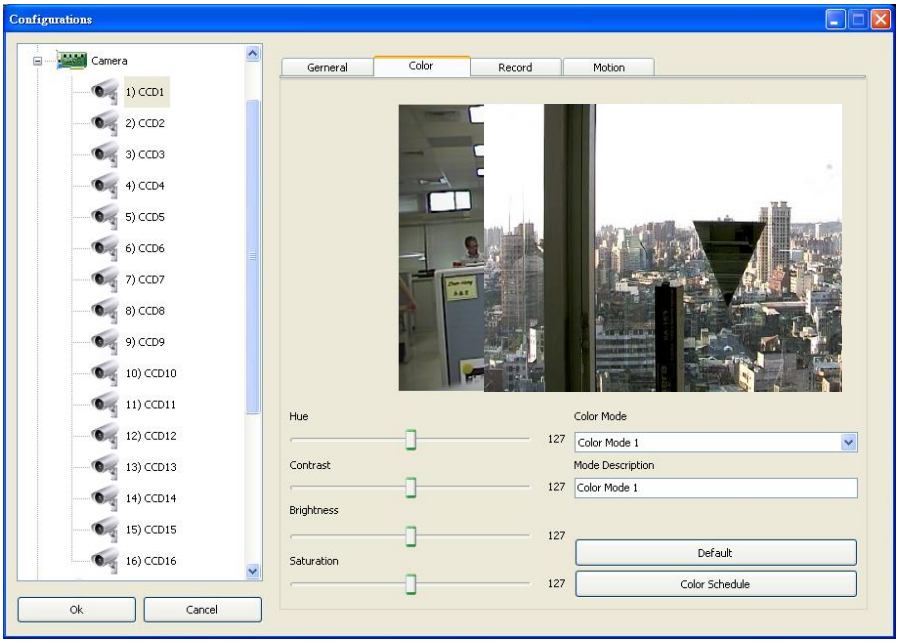


Figure 3-14

B. Click the "Color Schedule" button, users can arrange different color modes (Figure 3-15).

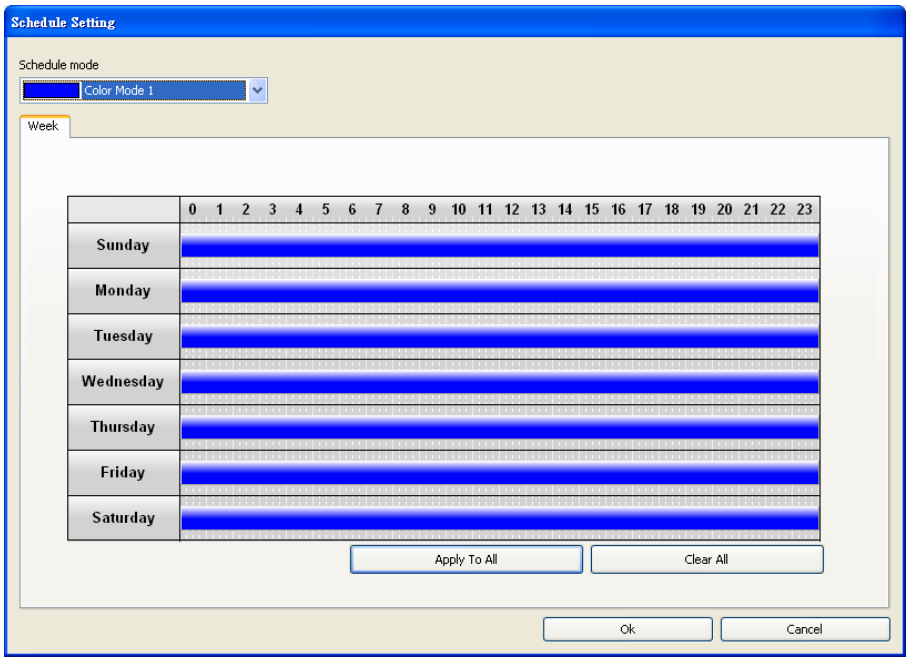


Figure 3-15

(3) ”Record”

A. “Record Mode”: the system provides seven kinds of video recording mode.

Note: The settings of the recording mode which is selected in this field will be modified by any changes in this tab.

B. “Record when event occurred only”: The recording won’t be started unless any motion detected or users start it manually.

C. “Normal Record” / “Event Record”: Users can respectively specify the recording mode for normal recording and eventual recording. For example, users maybe need to increase the quality of videos while events occurred and wash to reduce the quality for saving the bandwidth and drive-spacing while nothing happened.

(A) Rate: the HVR system provides nine kinds are 1, 2, 3, 4, 5, 6, 7, 10, 15, and 30 frames / sec; the same quality, the greater the rate, the more fluent the video.

(B) Quality: The system provides 10 kinds of levels, are 1, 2, 3, 4, 5, 6, 8, 9, and 10; at the same rate, the greater the quality, video is more clear.

D. “Pre-record time” / “Post Record time”: User can set the time length of the event recording. The system default value is 3 seconds for pre-recording and 10 seconds for post recording. This function usually works with the motion detection or events about cameras. Once any event occurred, the pre-recording will process for 3 seconds (can be set between 0 ~ 10 seconds), and then post-recording for the 10 seconds after the event time spot (can be set between

0 and 3600 seconds). The entire length of recording is 13 seconds in this case.

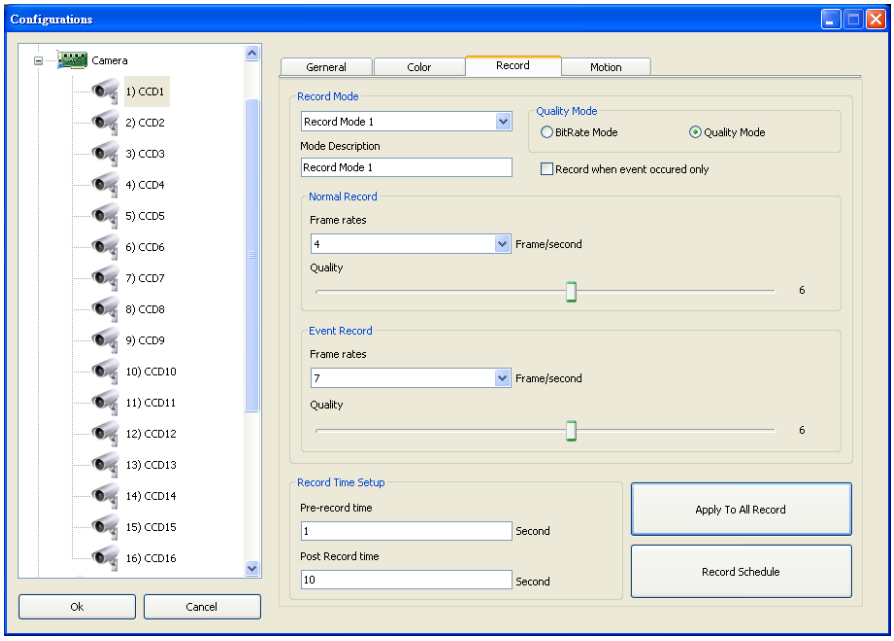


Figure 3-16

E. Click on the "Record Schedule" button, users are able to setup a recording schedule which defines the recording time and recording mode weekly or daily (Figure 3-17).

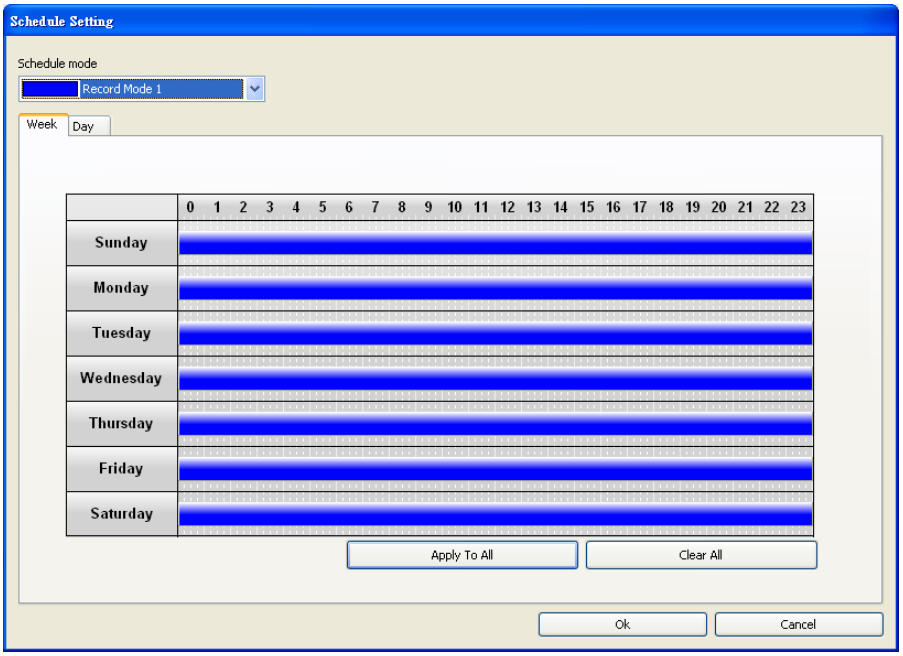


Figure 3-17

F. If you want to apply all (or part) of the schedule settings of a camera to all of other cameras, click the "Apply to All" button and check the item “Apply [Record Schedule] setting” in the popup “Camera Setting” dialog box, and then click the "Yes" button (Figure 3-18) to complete the settings.

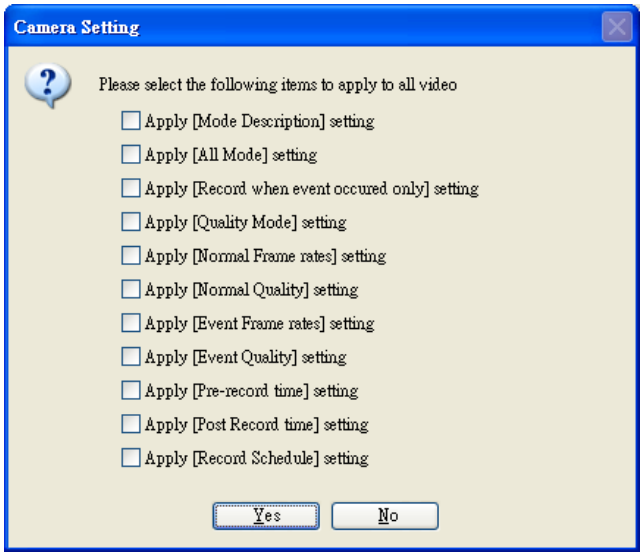

Camera Setting
Please select the following items to apply to all video
Apply [Mode Description] setting
Apply [All Mode] setting
Apply [Record when event occured only] setting
Apply [Quality Mode] setting
Apply [Normal Frame rates] setting
Apply [Normal Quality] setting
Apply [Event Frame rates] setting
Apply [Event Quality] setting
Apply [Pre-record time] setting
Apply [Post Record time] setting
Apply [Record Schedule] setting
Yes
No

Figure 3-18

(4) ”Motion”

A. “Motion Enable”: To check it to enable the motion detection function.

B. “Event Interval Time”: If several events occurred within “Event Interval Time”, all of the events will be treated as a single event. This default value is 10 seconds and the value can be set between 0 ~ 3600 seconds.

C. “Sensitive”: This setting defines the sensitivity of the motion detection. This default value is 80 and the value can be set between 1 ~ 100. Higher value, higher sensitivity.

D. “Add Action Zone”: Click this button to create a zone for motion detection.

E. “Delete Action Zone”: Click this button to specify a zone which is disabled for motion detection.

F. “Select Whole Zone”: Click this button to set the whole area on the video become detection zone.

G. “Delete All Zone”: Click this button to disable all motion detection zones in the picture.

Note: One channel can only have one detection zone; therefore no matter how many zones are drawn in a channel, they will all be regarded as one irregular-shaped zone.

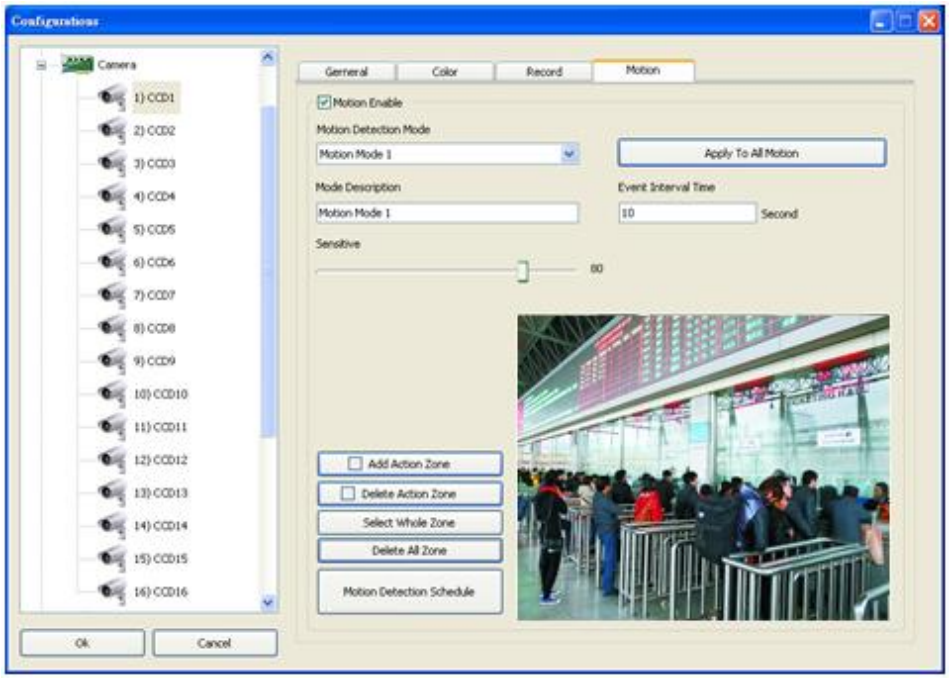


Figure 3-19

H. “Motion Detection Schedule”: The HVR system provides 7 user-configurable schedule modes for motion detection. Users can assign a specific motion detection mode with a schedule setting.

Select any mode first, edit the schedule, and click ok, the mode will be saved automatically.

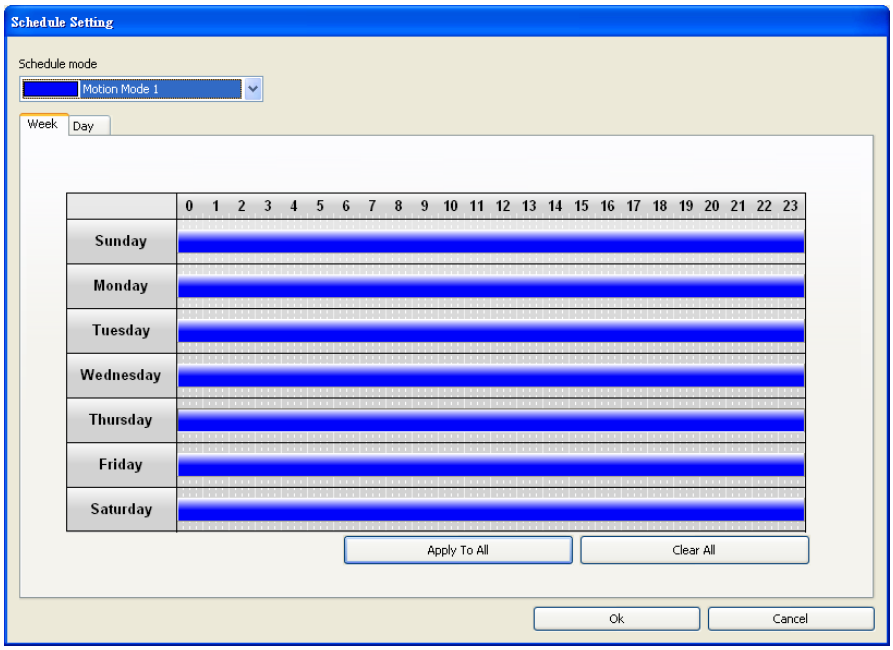


Figure 3-20

I. If you want to apply the motion detection settings of a camera to all of other cameras, click the "Apply to All" button (Figure 3-20) and check the options of applying in the popup “Camera Setting” dialog box, and then click the "Yes" button (Figure 3-21) to complete the settings or “No” to neglect the setting.

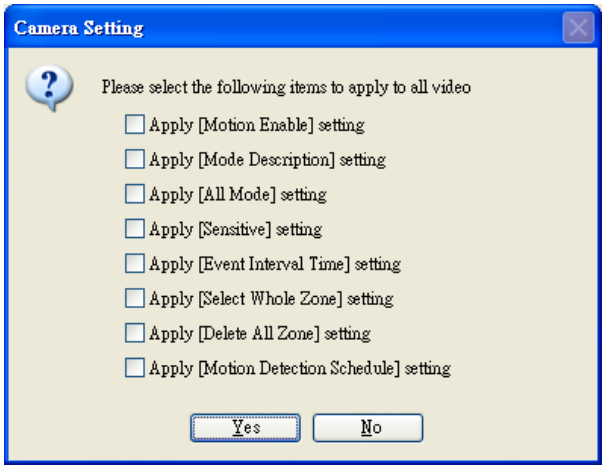

Camera Setting
Please select the following items to apply to all video
Apply [Motion Enable] setting
Apply [Mode Description] setting
Apply [All Mode] setting
Apply [Sensitive] setting
Apply [Event Interval Time] setting
Apply [Select Whole Zone] setting
Apply [Delete All Zone] setting
Apply [Motion Detection Schedule] setting
Yes
No

Figure 3-21

3.7 IP Camera Management

Click the button “Setup" and a dialog window which is titled “Configurations” will be pop-up. Click the tree view item, "IP Camera” (Figure 3-22), to adjust the following configurations:

(1) Manually add a network camera (Figure 3-22):

A. “Vendor” / “Model”: Select correctly the vendor and model.

B. “Channel” / “Camera ID”: The HVR system will automatically assign these two items.

C. “IP Address”: The IP address for the connected IP camera.

D. “Camera Name”: A name or description for the IP camera.

E. “Account” / “Password”: The Account and Password for the IP camera.

F. “Dual Stream”: Check it if the IP camera supports Dual Streaming.

G. Click the "Add IP Cameras" button, the camera is established.

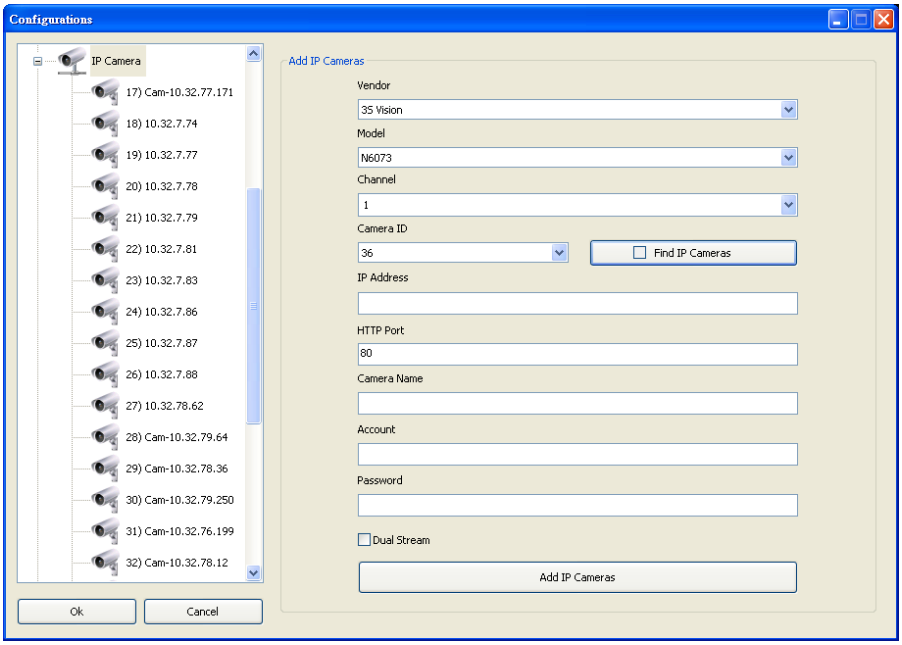


Figure 3-22

(2) Automatically “Find IP Cameras”(Figure 3-23):

A. Click on the "Find IP Cameras” button, a dialog box “IP Camera Finder” will be

pop-up, click on the “Search” button to begin discovering of IP cameras. After finishing discovering, you can select cameras needed to be managed from the list. It will be marked in the status column of the camera if the camera has been already added or not. “Exist” means it’s already added; “IP cam not add to list” means it’s not added.

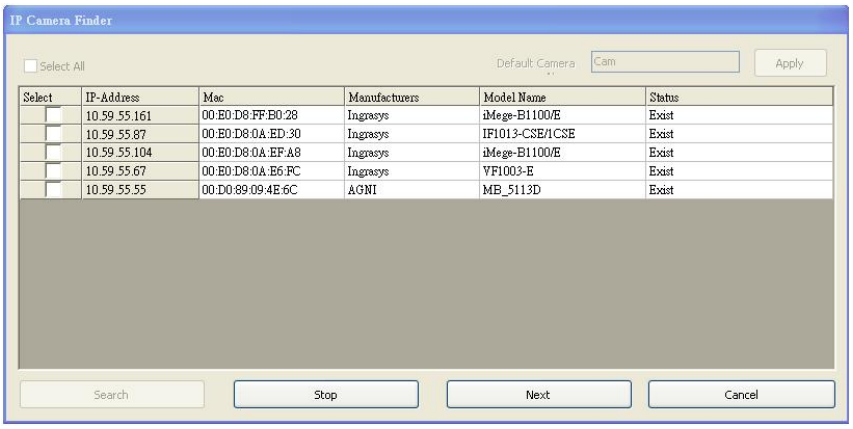


Figure 3-23

B. Click the "Next" button to bring up the following page (Figure 3-24), enter a name, account number and password, and set whether or not to open the dual-stream, enable recording and finally click on the "Add" button.

“Default camera name”: This is a text box on the right top of this dialog. The default name of all cameras can be changed according to user’s input in this box. The name will be displayed as “Name”-“IP”. Click the “Apply” button next to this text box and all names of IP cameras in the list will be changed.

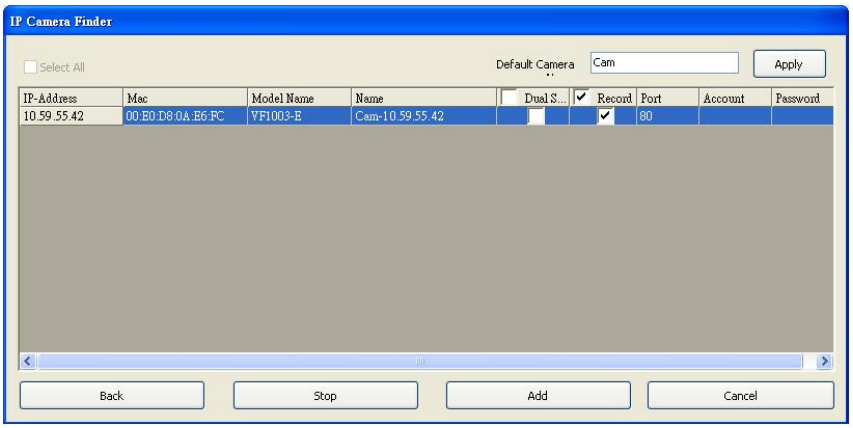


Figure 3-24

C. A window dialog box will pop out for confirming whether to store the setting of cameras (Figure 3-25), click "Yes" and the setting will be saved and jump to storage setting page (refer to figure 3-2); click "No" button, the setting will be neglected.

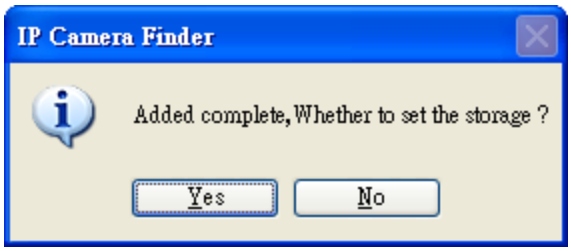


Figure 3-25

(3) Modify the IP Camera settings:

A. “Connection” (Figure 3-26).

(A) Click on the "Connection Setting" button, a dialog box "Camera Connection Setting” will be pop-up (Figure 3-27). Users can modify the “IP Address”, “HTTP Port”, “Account”, and “Password”, and finally click the “OK" button to complete the modification.

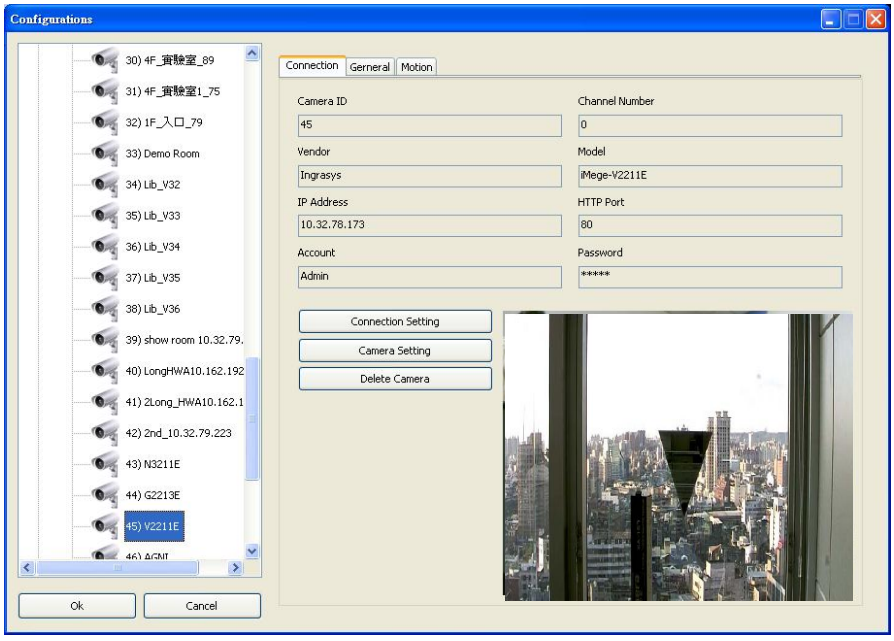


Figure 3-26

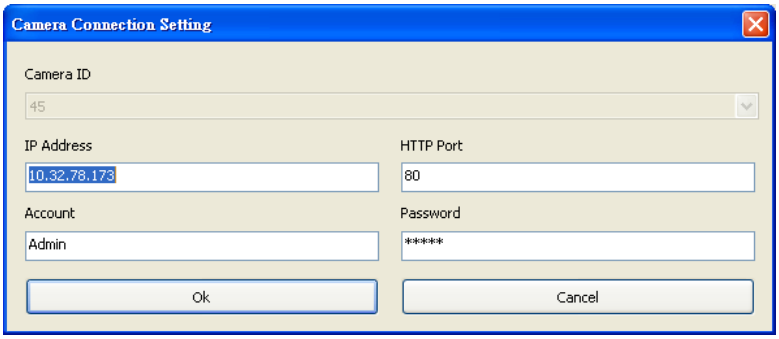


Figure 3-27

(B) Click on the "Camera Setting" button, the Web user interface of the camera will be opened (Figure 3-28), after editing, click "Save" and close the internet browser.

Figure 3-28

(C) Click the "Delete Camera" button, a confirm dialog box will be popped out to confirm the deleting (Figure 3-29). Check for the deletion-related items and click "Yes" to delete the selected camera according to user's requirement.

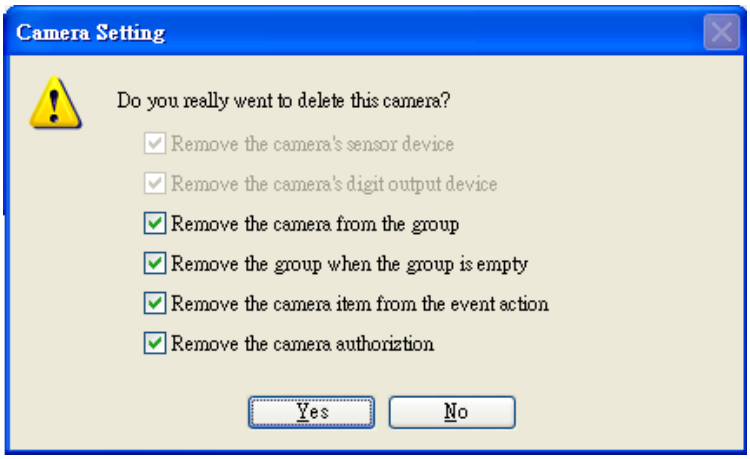

Camera Setting
Do you really went to delete this camera?
Remove the camera's sensor device
Remove the camera's digit output device
Remove the camera from the group
Remove the group when the group is empty
Remove the camera item from the event action
Remove the camera authoriztion
Yes
No

Figure 3-29

B. "General": (Figure 3-30)

(A) "Camera Enable": When checked, the channel will be activated.

(B) "Camera Name": A name or description for the camera.

(C) "Font Display Size", "Font Display Color": The font size and font color settings for the OSD on the real-time video.

(D) "Video Record Enable": Enable or not to record the video.

(E) "Dual Stream": If this IP camera supports dual streaming and this setting item is checked, the HVR system will automatically mapping two streams from the IP camera to recording and previewing, which might be different for each model of IP camera.

(F) "Record when event occurred only": If this item is checked, the recording won't be started unless any event occurred.

(G) "Audio Record Enable": Enable or not to record the audio.

(H) "PTZ Enable": Enable or not the controlling of PTZ for a speed dome camera or a camera with a PT Head.

(I) "Record Schedule": Users can specify the recording schedule by weekdays or dates. (Figure 3-29)

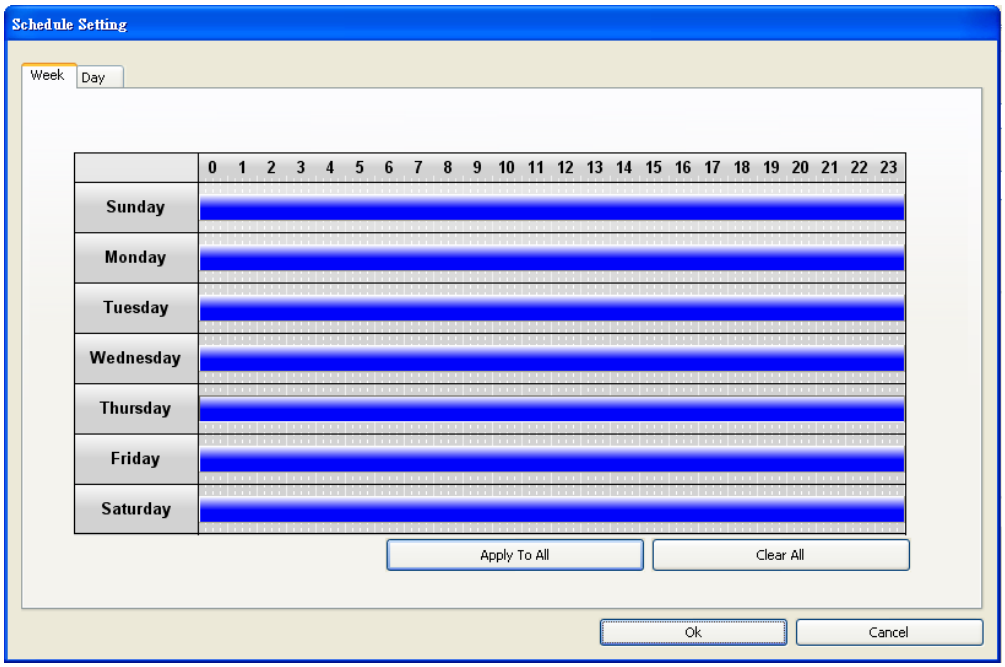


Figure 3-30

(J) "Pre-record time" / "Post Record time" (Figure 3-31): the time length for event recording. The system default value is 3 seconds for pre-recording and 10 seconds for post recording. This function usually works with the motion detection or other events related to cameras. Once any event occurred, 3 seconds of video will be recorded before the occurring time of event (can be set between 0 ~ 10 seconds), and 10 seconds of video will be recorded after the occurring time(can be set between 0 and 3600 seconds), in this example, the entire length of recording is totally 13 seconds.

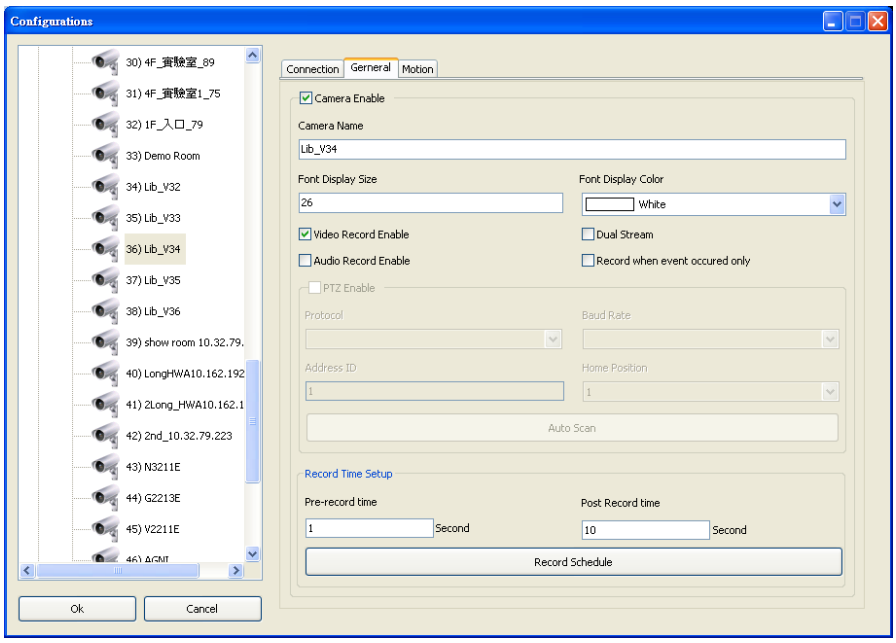


Figure 3-31

C. “Motion”: (Figure 3-32).

(A) “Motion Enable”: To check it to enable the motion detection function.

(B) “Event Interval Time”: If several events occurred within “Event Interval Time”, all of the events will be treated as a single event. This default value is 10 seconds and the value can be set between 0 ~ 3600 seconds.

(C) “Sensitive”: This setting defines the sensitivity of the motion detection. This default value is 80 and the value can be set between 1 ~ 100. Higher value, higher sensitivity.

(D) “Add Action Zone”: Click this button to create a zone for motion detection.

(E) “Delete Action Zone”: Click this button to specify a zone which is disabled for motion detection.

(F) “Select Whole Zone”: Click this button to set the whole area on the video become detection zone.

(G) “Delete All Zone”: Click this button to disable all motion detection zones in the picture.

Note: One channel can only have one detection zone; therefore no matter how many zones are drawn in a channel, they will all be regarded as one irregular-shaped zone.

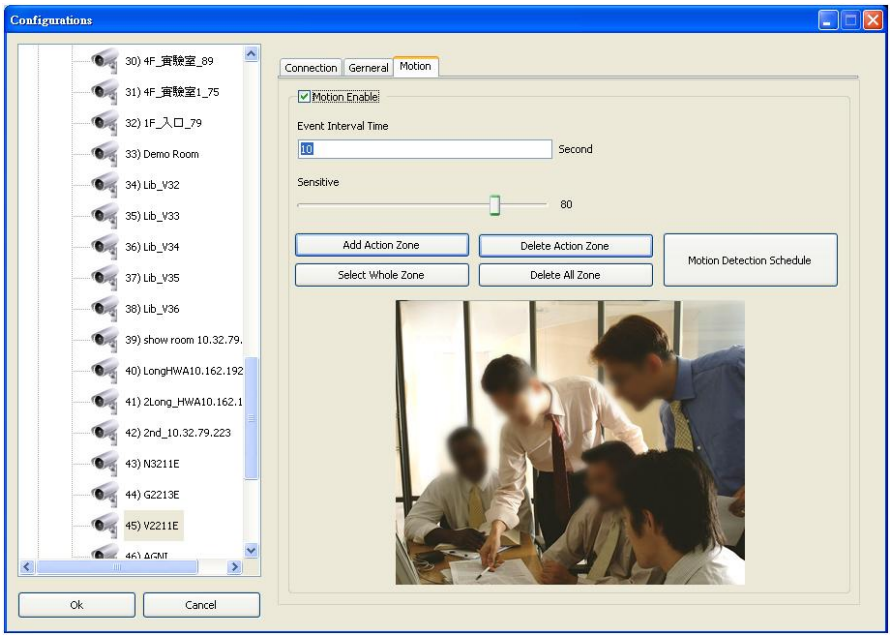


Figure 3-32

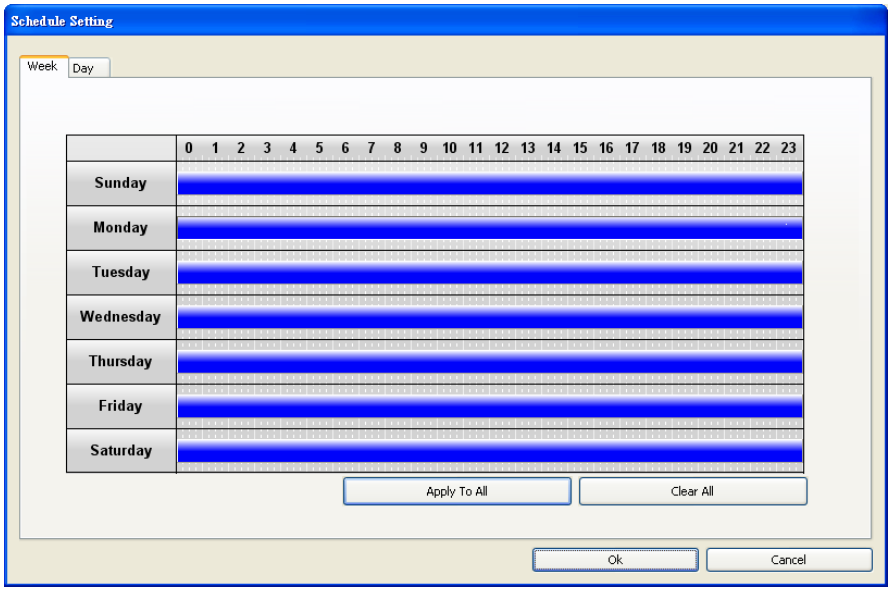


Figure 3-33

3.8 Group Settings

User can create, update, duplicate, and delete channel groups in this section. Instructions: Click the "Setup" button and a dialog window which is titled “Configurations” will be pop-up. Choose "Group” in the function tree (Figure 3-34) to adjust the following configurations:

(1) Add a group

A. “Group Name”: Input a name for the Camera Group.

B. “Select Camera”: Users can select several cameras into the group by simply dragging a camera which is listed in the “Camera” list and drop it in the “Select Camera” list. Repeat this drag-and-drop process until you have selected all cameras you want to be in this group, and finally click the “Add” button to complete the operation.

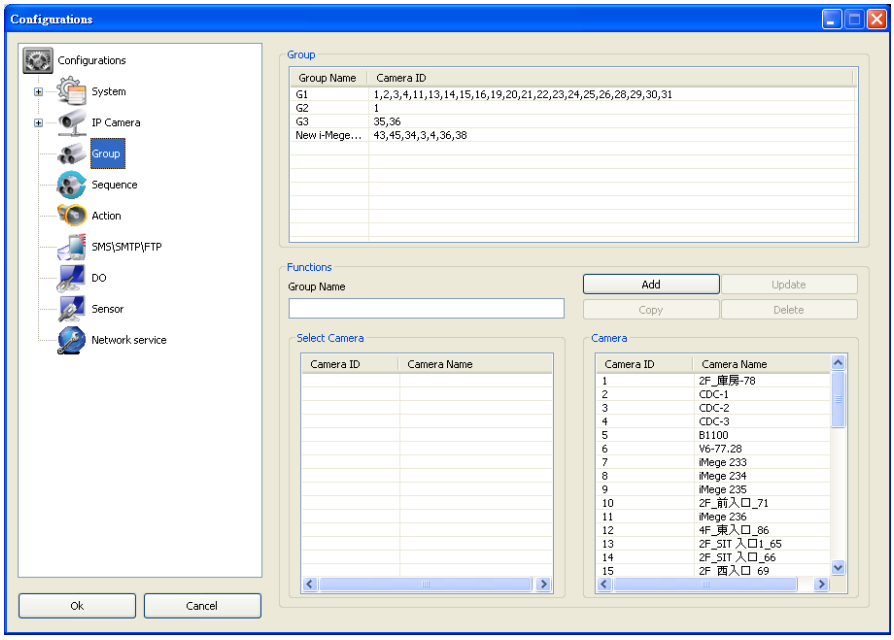


Figure 3-34

(2) Duplicate Groups

Select the group (which is listed in the “Group” list) you want to duplicate and finally click on the "Copy" button to create a new group, and then you can have necessary modification for the new group.

(3) To delete the group

Select the group (which is listed in the “Group” list) you want to delete and finally click on the "Delete" button to delete it (Figure 3-35).

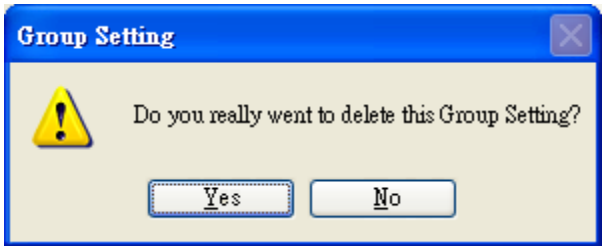


Figure 3-35

(4) Update Group

Select the group (which is listed in the “Group” list) you want to update, modify the contents, and finally click the "Update" button to update the group information.

(5) Select a Group of cameras for Displaying

Users are able to select a specific Camera Group by clicking “ ” in the main page, choose “Group” and then select a Camera Group you like to switch the real-time video screens.

(6) Sequencing

You can enable sequencing by clicking “ ” on the main page. For the setting of sequencing, please refer to chapter 3.9.

3.9 Sequence Settings

To provides the “Recursive Playing” function across camera groups. The “Sequence” can be created, updated, duplicated, and deleted by users. Instructions:

Click the button "Setup" and a dialog window which is titled “Configurations” will be pop-up. Click the tree view item, "Sequence” (Figure 3-36), to adjust the following configurations:

(1) Create Sequences

A. “Sequence Name”: A name or a description of this Sequence mode.

B. “Interval Time”: This time is defined the time how long to wait to switch to the next Group (Camera Group) to display.

C. “Schedule Setup”: Click the "Schedule Setup" button, users can assign different “Sequences” by a weekly or daily schedule (Figure 3-37). Therefore, desired sequence mode will be automatically started and stopped in the period defined by the user.

D. Enter “Sequence Name” and “Interval Time” for the new Sequence and drag Groups from the right list and drop them into the left list, and finally click the "Add" button to complete the creation of Sequence.

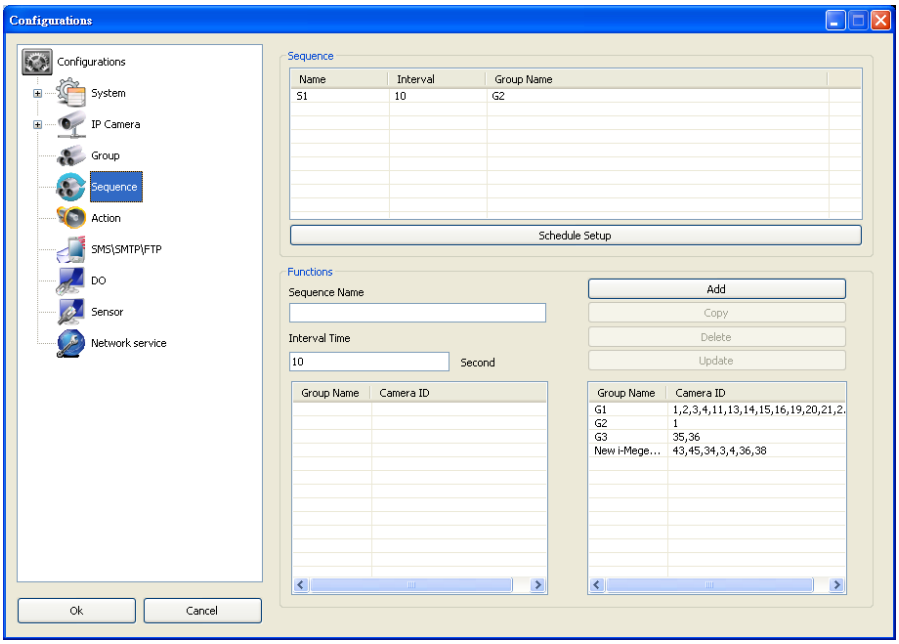


Figure 3-36

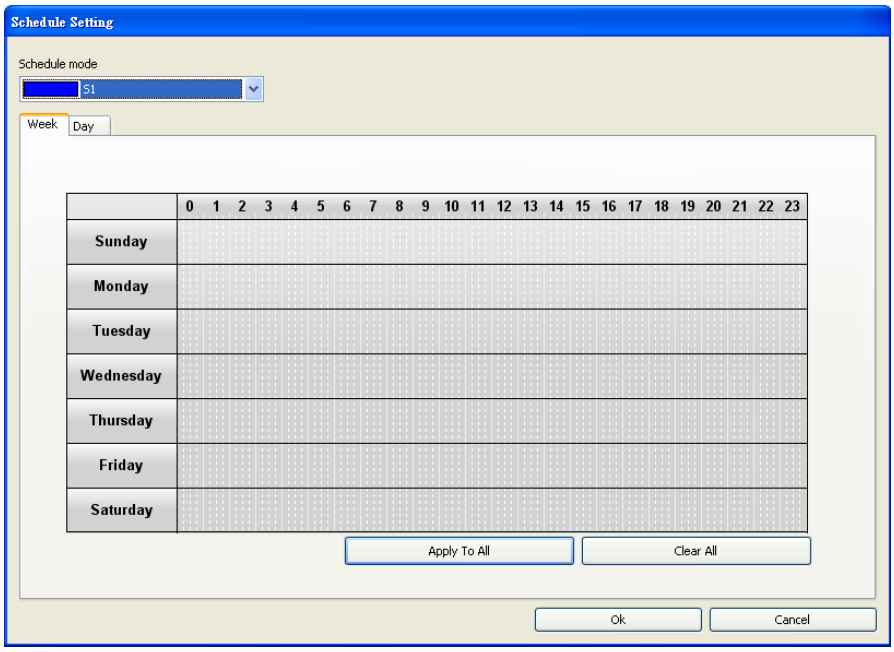


Figure 3-37

(2) Duplicate Sequences

Select the Sequence (which is listed in the “Sequence” list) you want to duplicate and click on the "Copy" button to create a new Sequence.

(3) Delete Sequences

Select the Sequence (which is listed in the “Sequence” list) you want to delete and click on the "Delete" button, a confirm dialog box “Sequence Setting” will be pop-up (Figure 3-38), click yes to execute the deletion or click no to cancel this deletion.

Figure 3-38

(4) Update Sequences

Select the Sequences (listed in the “Sequences” list) you want to update, modify the contents, and finally click the "Update" button to update the Sequences information.

(5) Start sequencing

In the main page, click and choose , the list of available sequence modes will show up, and then choose 1 mode to start the sequence. Click on the mode again to stop sequencing.

3.10 Event Action Set

Define a variety of response actions for every types of event. For example, to turn on a siren linked on an IP camera for 10 seconds while any motion detection occurred, or to send an e-mail to the administrator to alert him that a hard drive disk is going to be broken, etc.

Instructions:

Click the button "Setup" and a dialog window which is titled “Configurations” will be pop-up. Click "Action” (Figure 3-39) to adjust the following configurations:

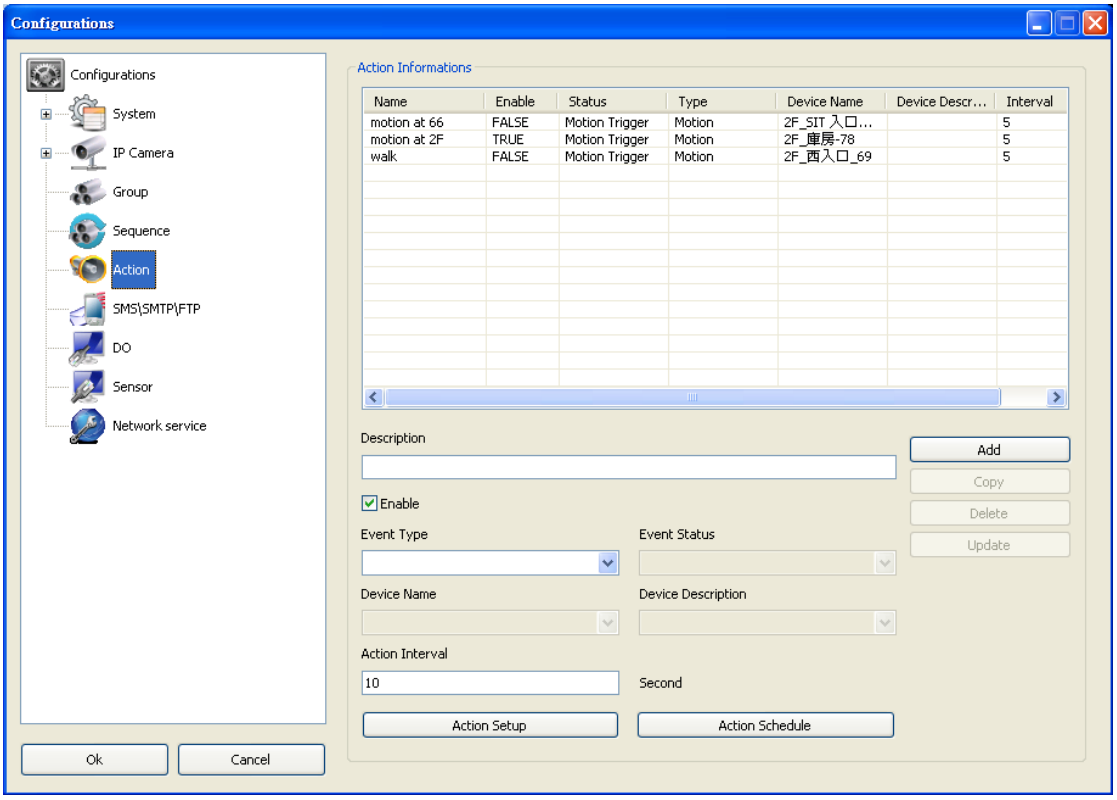


Figure 3-3

(1) “Description”: A name or a description of the Action.

(2) “Event Type”: The type of the trigged event (Table 3-1). For “Motion Detection”, “Sensor”, and “Camera Signal”, the items “Device Name” and “Device Description” are required.

No.	Event Type	Status
1	Hardware monitoring	Hardware capture error
		Hardware capture is restored
		Hardware compression error
		Hardware compression is restored
2	Store	No storage space
		Re-obtain the storage space
3	Motion Detection	Detection triggered
		Detection reset
4	Sensor	Sensor is triggered
		Sensor reset
5	Camera Signal	Video Loss
		Video restoration

Table 3-1

(3) “Device Name”: A name of the device that the event belongs to.

(4) “Device Description”: A name of the device that the event belongs to.

Note: Please refer to "4.13Settings for Sensors".

(5) "Action Interval": If the same event occurred within a period "Event Interval Time" more than one time, all of the events will be treated as a single event. This default value is 10 seconds and the value can be set between 0 ~ 3600 seconds.

(6) "Action Setup": Click on the "Action Setup" button to open a dialog box titled "Action Item Setting" (Figure 3-40). Users can set an action definition by selecting actions.

A. "DO": "Digital Output", to trigger external digital devices. For example, siren and alarm light, speaker, etc.

Note: Refer to 4.12 digital output device settings.

B. "PTZ": To drive the specific speed dome camera to aim a specific position for a specific time.

Note: Refer to Sections 2.9 and 3.7 PTZ-related settings.

C. "E-Mail": To send an email to relevant person.

D. "SMS": To send a SMS text message to relevant person.

Note: Refer to 3.11 SMS / email / FTP settings.

E. "HTTP Call": To perform a CGI calling to a specific HTTP web site.

F. "Video Clip": To start saving a video clip of a specific camera.

G. "Snap Shot": To snapshot a picture and save it to a specific folder.

H. "Play Sound": To play a user-defined sound.

I. "Display": To pop-up a window with user-defined live video of a channel with optional auto-countdown to close window; or to display the real-time videos of a specific camera or a camera group for a user-defined time replacing the original previewing video channel temporarily.

J. "Execute App": To execute a specific application on this local server.

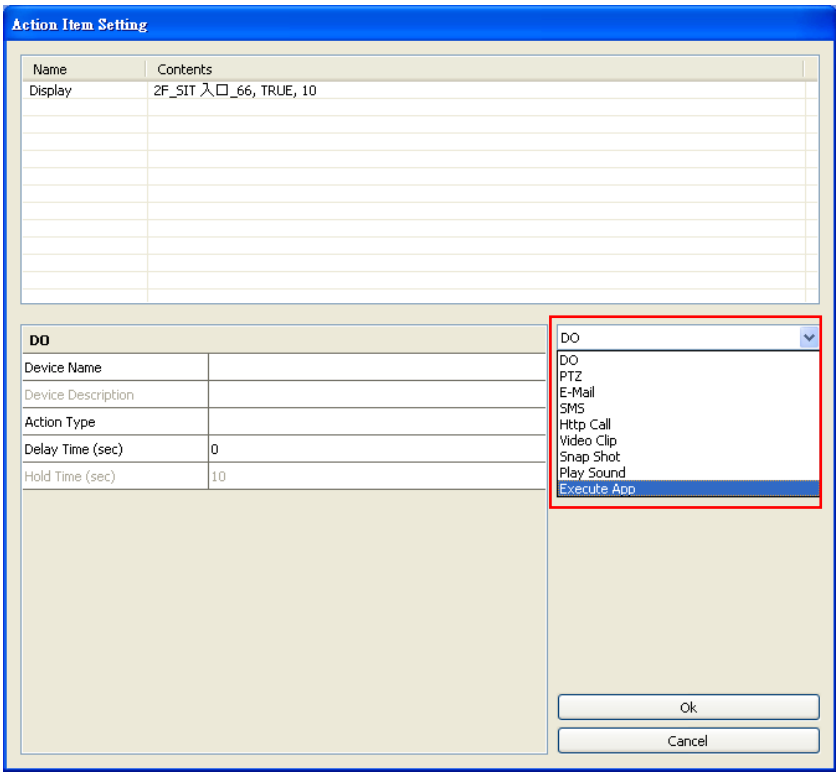


Figure 3-40

(1) After setting, and then finally click the “Add" button to complete the creation.

(2) Duplicate Action:

Select the Action which you want to duplicate, modify the Action Settings, click the button "Copy”, you can create another new Action.

(3) Delete Action:

Select the Action which you want to delete, click the button "Delete”, and then click the button “Yes” in the confirmation dialog box to confirm the deleting

(4) Update Action:

Select the Action which you want to update, then modify the Action Settings and click the button "Update” to apply the change

3.11 SMS / Email Settings / FTP

Set configurations for SMS, E-Mail, and FTP. If any Action Definitions involved SMS, SMTP, or FTP, these configurations must be set correctly. Instructions:

Click the button "Setup" and a dialog window which is titled “Configurations” will be pop-up. Click the tree view item, "SMS\SMTP\FTP” (Figure 3-41), to adjust the following configurations:

(1) SMS settings

A. “SMS”: SMS function is enabled when checked,
B. “Serial Port Number”: Select a port can be used to send SMS.
C. “Baud Rate”: the system defaults to 115200, system provides 2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200 / 230400 a total of eight kinds of users based on the need for choice.

(2) SMTP (E-Mail) settings

A. “Host Name”: Enter the ***FQDN***(Fully Qualified Domain Name) of the host.
B. “Port”: Enter the port number of the host.
C. “Authentication Mode”: “True” (YES) or “FALSE” (NO) to authenticate the account while sending.
D. “Account” / “Password”: username / password.
E. “Language Code”: The encoding code. The system default is Unicode (UTF-8) and the following are available:

Arabic (Windows)
Baltic (Windows)
Central European (ISO)
Central European (Windows)
Chinese Simplified (GB2312)
Chinese Simplified (HZ)
Chinese Traditional (Big5)
Cyrilic (KOI8-R)
Cyrillic (Windows)
Greek (Windows)
Hebrew (Windows)
Japanese (JIS)
Korean
Korean (EUC)
Latin 9 (ISO)
Thai (Windows)
Turkish (Windows)
Unicode (UTF-7)
Unicode (UTF-8)
Vietnamese (Windows)
Western European (ISO)
Western European (Windows)

A. “Sender E-Mail”: Users can assign an e-mail address of the sender here.

B. Sender name: Users can assign a name of the sender here.

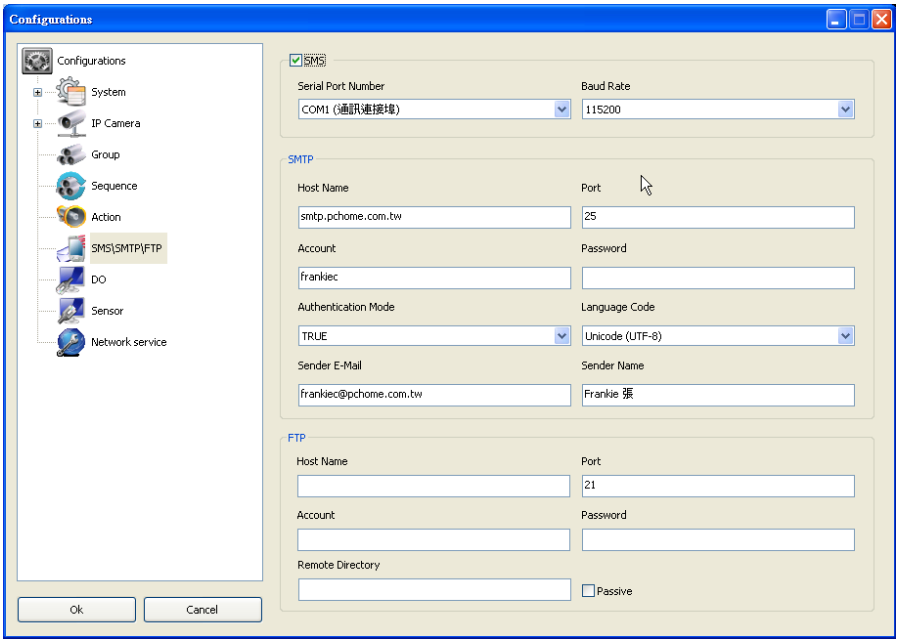


Figure 3-41

(3) FTP settings

A. “Host Name”: Enter the ***FQDN*** (Fully Qualified Domain Name) of the host.

B. “Port”: Enter the port number of the host.

C. “Account” / “Password”: username / password.

D. “Remote Directory”: The name of a directory which is the destination directory for uploading. This directory will be automatically created in the home directory.

E. “Passive”: Check this check box if the FTP site is in Passive Mode.

3.12 DO (Digital Output Settings)

Set the configurations about the digital output devices that are connected to IP Cameras. For example, speakers, alarms, etc. Instructions:

Click the button "Setup", and a dialog window which is titled “Configurations” will be pop-up. Click the tree view item, "DO” (Figure 3-42), to adjust the following configurations:

(1) Add a device

A. “Device Name”: Select a name of the master device which DO device connected to, like IP camera, DVS or IO box.

B. “Device Port”: The port number of the master device.

C. “Device Description”: A description of the DO device.

D. Click the "Add" button to add a new device.

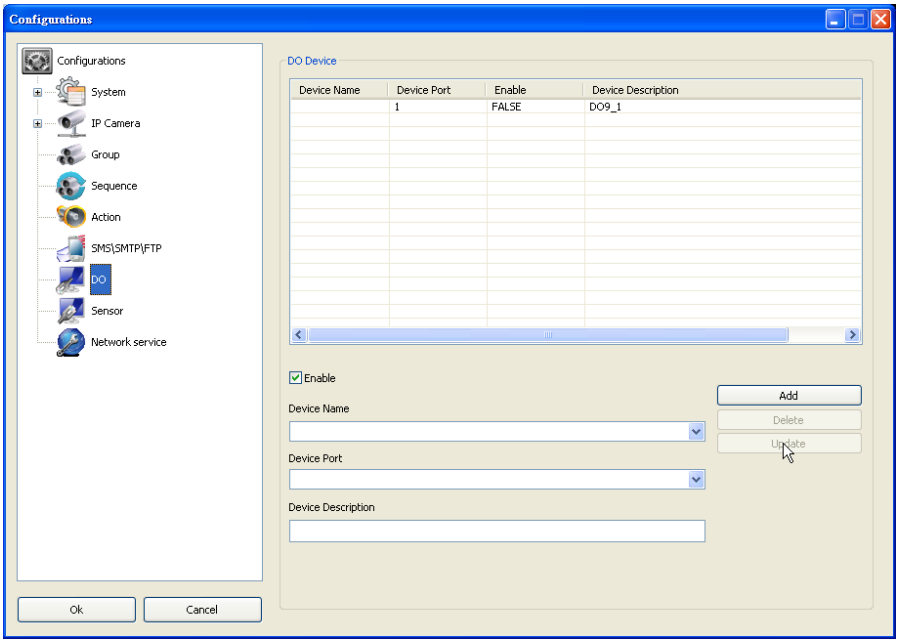


Figure 3-42

(2) Delete the device

Select a DO Device which is to be deleted from the “DO Device” list, click the "Delete" button, a confirmation dialog box (Figure 3-43) will be pop-up, just click the "Yes" button or complete the deleting.

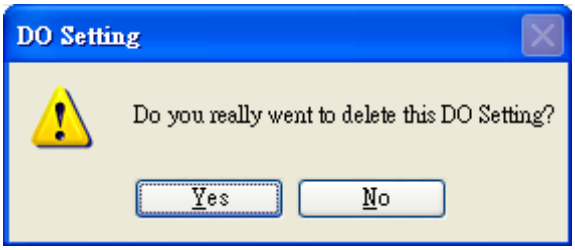


Figure 3-43

(3) Update the device

Select a desired DO Device which user need to updated from the “DO Device” list, modify the contents, and then click on the "Update" button to complete the updating.

3.13 Sensor

Created, deleted, or updated the configurations about every sensors (ex., Door Sensor, Smoke Detector, etc.) user want to manage. Instructions:

Click the button "Setup" and a dialog window titled “Configurations” will be pop-up. Click "Sensor” on the tree view item (Figure 3-44) to adjust the following configurations:

(1) Add a sensor device

A. “Device Name”: Select a name of the master device which DI device physically connected to, like IP camera, DVS or IO box.

B. “Device Port”: The port number of the master device.

C. “Camera Name”: Select the camera which the sensor device actually related to on event action. For example, camera 2 has start event recording when sensor linked at camera 1 was triggered. Besides, please set the sensor mode to be “Normal Closed” or “Normal Opened”.

D. “Device Description”: A description for the sensor device.

E. “Mode”:

(A) Select a proper Sensor Mode. There are 7 modes to be selected.

(B) “Interval (second)”: If the same event occurred within a period “Event Interval Time” more than one time, all of the events will be treated as a

single event. This default value is 10 seconds and the value can be set between 0 ~ 3600 second

(C) “Delay Time (second)”: An effective trigger must continue for the number of seconds. The system defaults to 0.5 seconds, is limited to between 0 ~ 3 seconds.

(D) “Schedule”: The sensor’s triggering won’t be effective during the un-desired time period. Click the button (“Schedule”, users can assign different sensing schedule weekly or daily and saved as multiple modes. (Figure 3-45). The mode actually used for this sensor is the mode you finally choose before closing the dialog box of “schedule setting”.

Note: After finishing of the three items (A) (B) (C) & (D), the values are automatically saved for the sensor model.

F. “Add”: After finishing of the above settings, users can click the "Add" button to add a new sensor device.

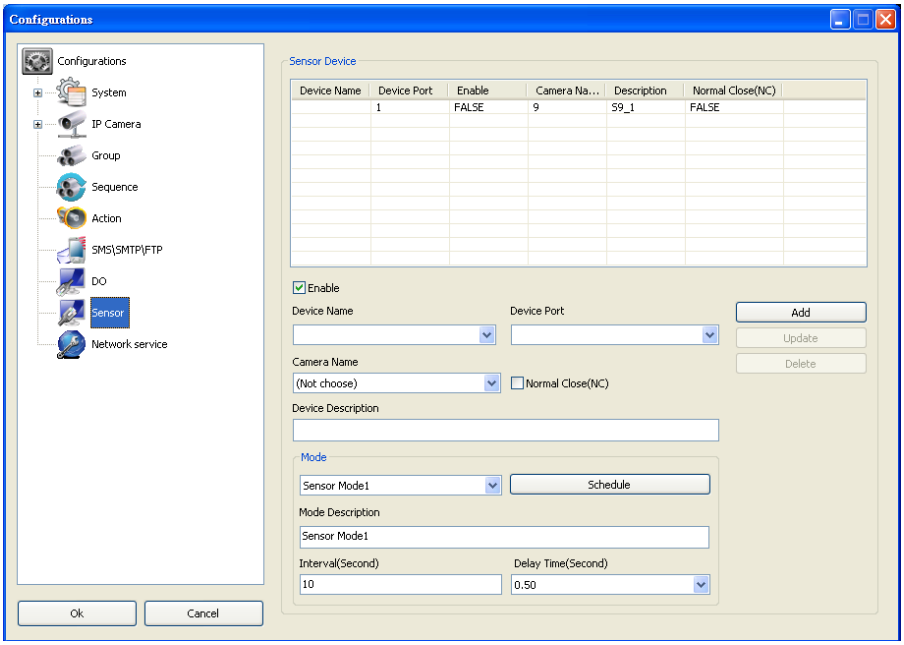


Figure 3-44

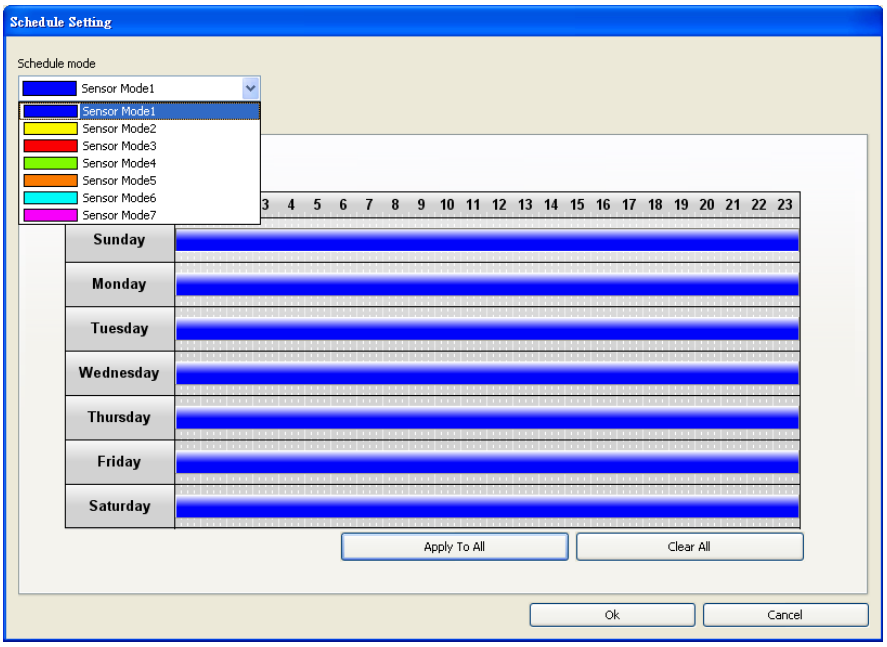


Figure 3-45

(2) Remove the sensor device

Select a sensor device which is to be deleted from the “Sensor Device” list first, and then click the "Delete" button, a confirmation dialog box will be pop-up (Figure 3-46). Just click the "Yes" button to complete the deleting or click the “No” button to cancel.

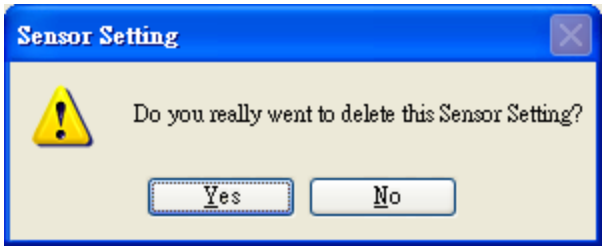


Figure 3-46

(3) Update a sensor device

Select a sensor device which is to be updated first, modify the settings, and finally click the “Update” button to complete the updating.

4 E-Map Settings

Users are able to overview the location of every device, be noticed of device-related alarm on the e-map graphically, and directly go to live view of every channel by clicking on any camera. Please refer to following instructions for e-map setting:

Users can lunch the E-Map Editor “eMapDesigner” to edit the E-Map settings. To lunch the eMapDesigner, just click the "Start" -> "Programs" -> "the HVR" -> "eMapDesigner".

4.1 Add a new map

(1) In the main page of the eMapDesigner, click the right button on the “Map” tab to Add / Modify / Delete a “Root Map” (Figure 4-1).

Note: The available formats of Root Map are BMP and JPG.

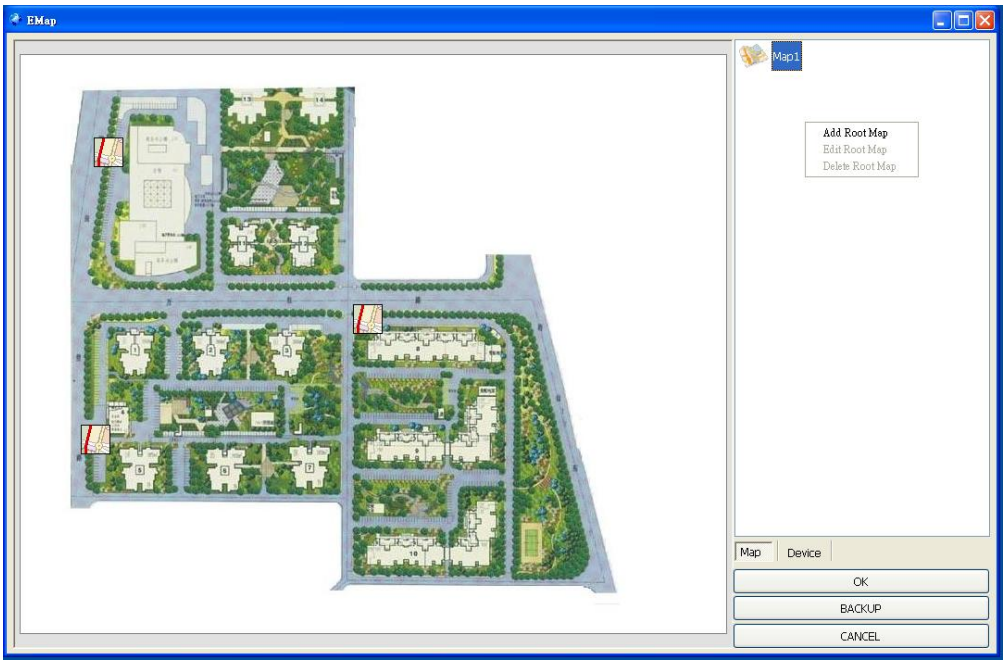


Figure 4-1

(2) Click the "Add a Root Map" to bring up an “EMap” dialog which can be assigned the name and picture’s path of the Root Map (Figure 4-2).

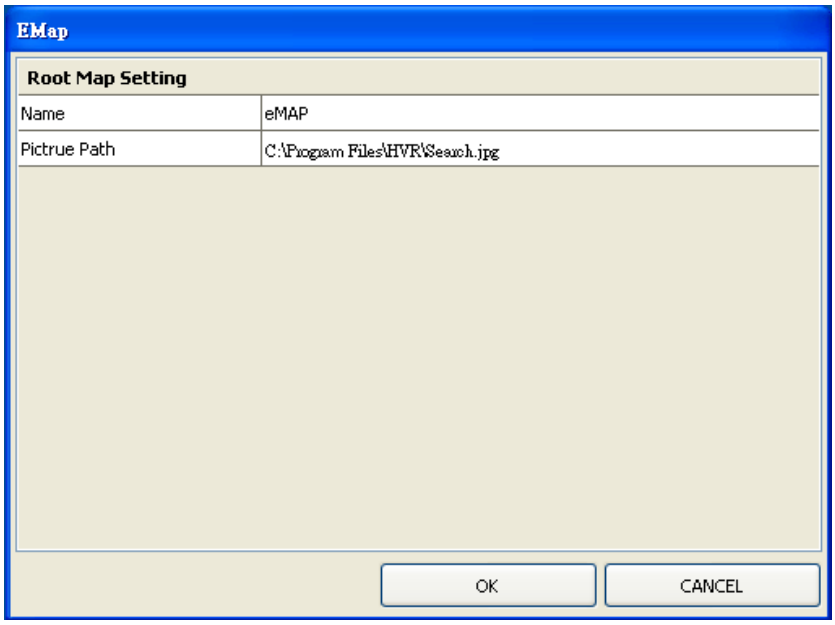


Figure 4-2

(3) In the main page of the eMapDesigner, click the right button on the “Device” tab to Add / Modify / Delete a “Device” (Figure 4-3), a “Map Setting” dialog box will be pop-up. User can input the settings of the device which is to be added / modified / deleted (Figure 4-4).

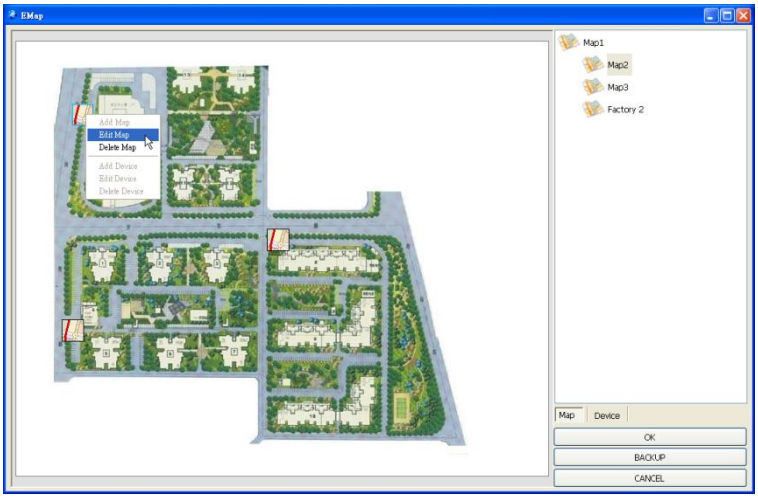


Figure 4-3

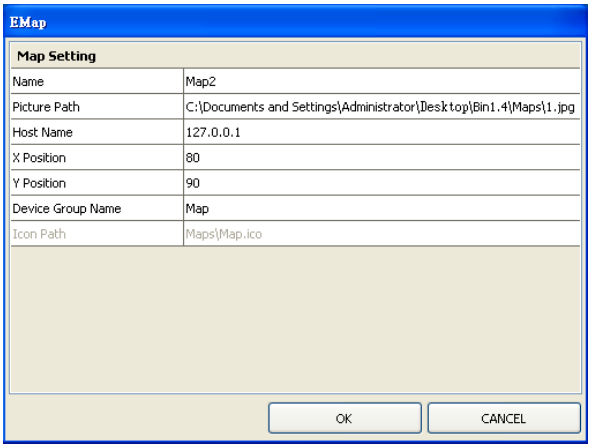


Figure 4-4

4.2 Add a device

Users can add a new camera or a digital input / output devices:

(1) Double-click the map you want to add device, the map will be opened in the left frame (as the right frame in Figure 4-3).

(2) Click the bottom "devices" and all of optional device icons will be displayed. The system default divided those icons into three kinds of device groups: nine kinds of the camera (device icon), and digital input devices (five kinds of equipment as shown in figure), the digital output device (7 kinds of devices shown). Please refer to Figure 4-5.

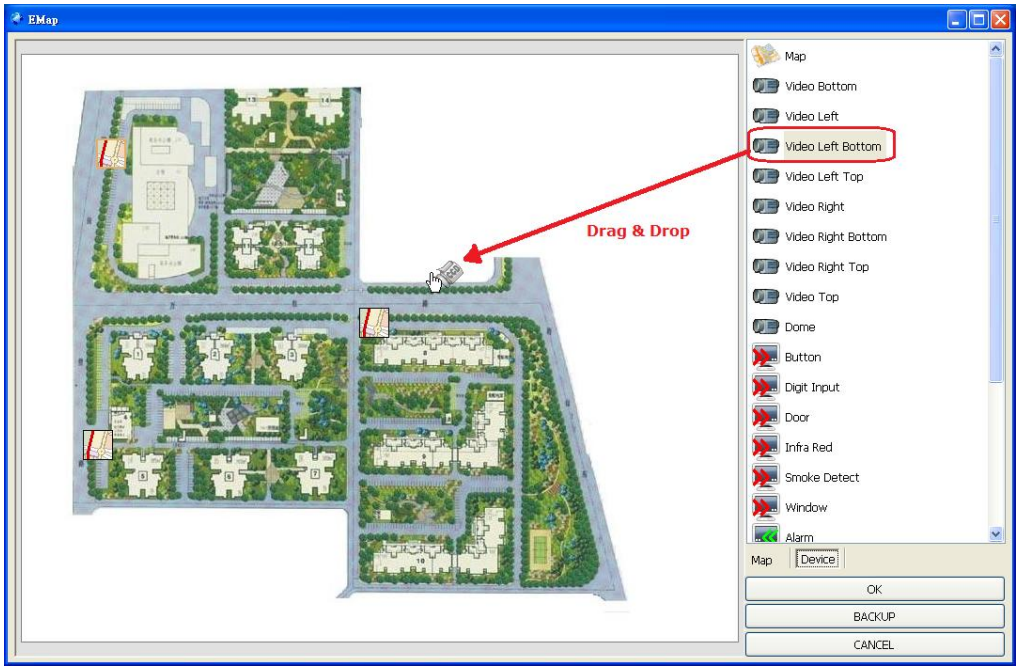


Figure 4-5

(3) Drag the icon of device in the right frame which you want to add and drop it at the location where the device should be located of the map. A “Map Device Setting” dialog box will be pop-up. Complete all of the settings and click the “OK” button (Figure 4-6).

Note: The settings (“Device Type”, “Device Group Name”, “X Position”, “Y Position”, “Device ID”, “Video ID”, and “Device Port” are automatically assigned by the HVR system. User is not able to modify them.

A. After setting, click "OK" button to complete.

B. Click the "BACKUP" button, you can back up the E-Map settings.

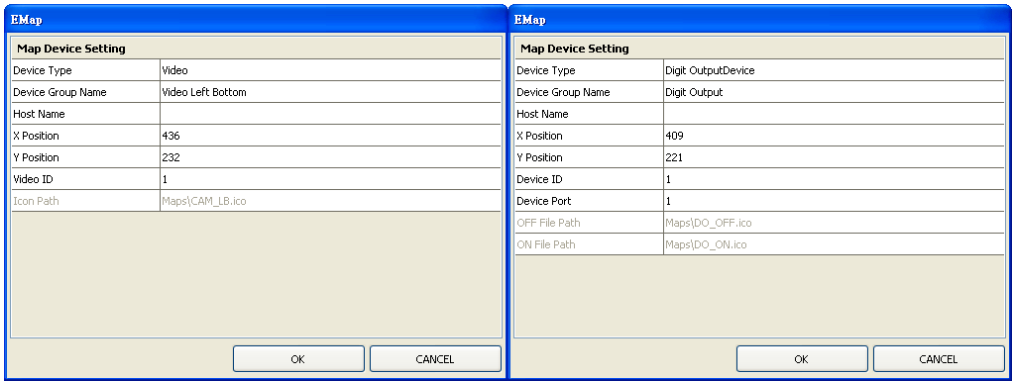


Figure 4-6

C. In the main page of the HVR system, to click on the " " icon, you can open an E-Map windows (Figure 4-7).

D. While any event occurred, the icon of the device will be highlighted on the E-Map with a red box.

E. Click on the device icon, the real-time video of the device will be shown.

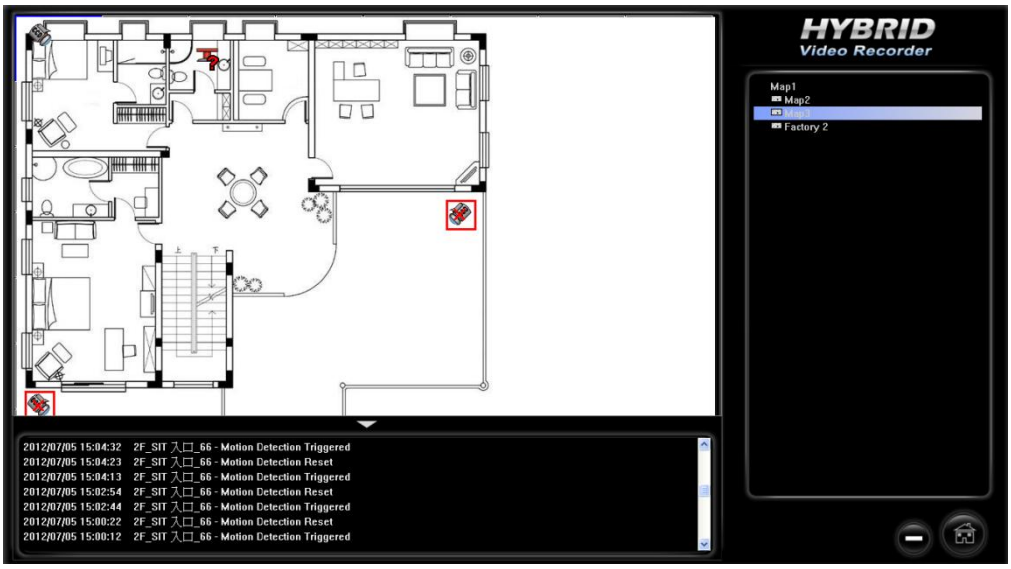

HYBRID
Video Recorder
Map1
Map2
Factory 2
2012/07/05 15:04:32 2F_SIT 入口_66 - Motion Detection Triggered
2012/07/05 15:04:23 2F_SIT 入口_66 - Motion Detection Reset
2012/07/05 15:04:13 2F_SIT 入口_66 - Motion Detection Triggered
2012/07/05 15:02:54 2F_SIT 入口_66 - Motion Detection Reset
2012/07/05 15:02:44 2F_SIT 入口_66 - Motion Detection Triggered
2012/07/05 15:00:22 2F_SIT 入口_66 - Motion Detection Reset
2012/07/05 15:00:12 2F_SIT 入口_66 - Motion Detection Triggered

Figure 4-7

5 Playback

5.1 Playback

Users can playback and query out desired time spot by date/ time, events, snapshots, and bookmarks, or process an “Smart Search” by motion detection analysis toward recording file.

Instructions:

In the main page of the HVR system, click the button “Playback" and the window will be switched for the “Playback” (Figure 5-1).

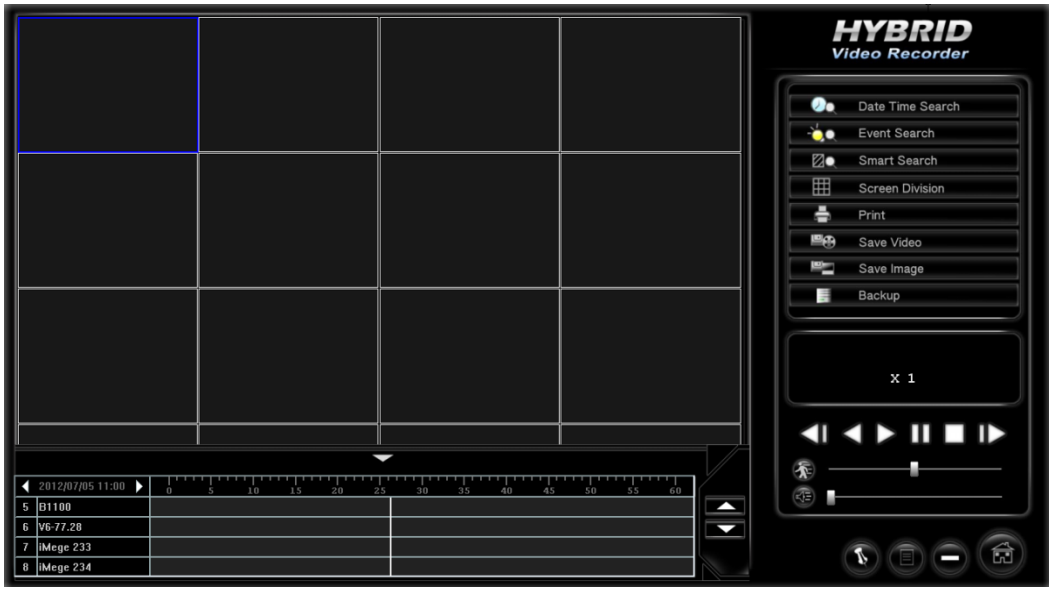


Figure 5-1

Note: An authorized permission is required to do the following about playback operation.

(1) Date / Time Search

A. Click on the "Date Time Search" button, pop-up "Search By Time" dialog box (Figure 5-2)

B. In the calendar box (upper part of the “Search by Time”), the date which is marked by green background green indicates there are some recordings have been saved.

C. In the camera-time-schedule list (lower part of the “Search by Time”), the time segment which is marked by blue background indicates the corresponding

camera has recording files at the time segment. There is a vertical blue line which indicates the base time of the playback.

D. Users can move the blue base time line to any time, and then click the “Search” button, the “Search by Time” dialog box will be closed and base time of the playback is changed correspondingly.

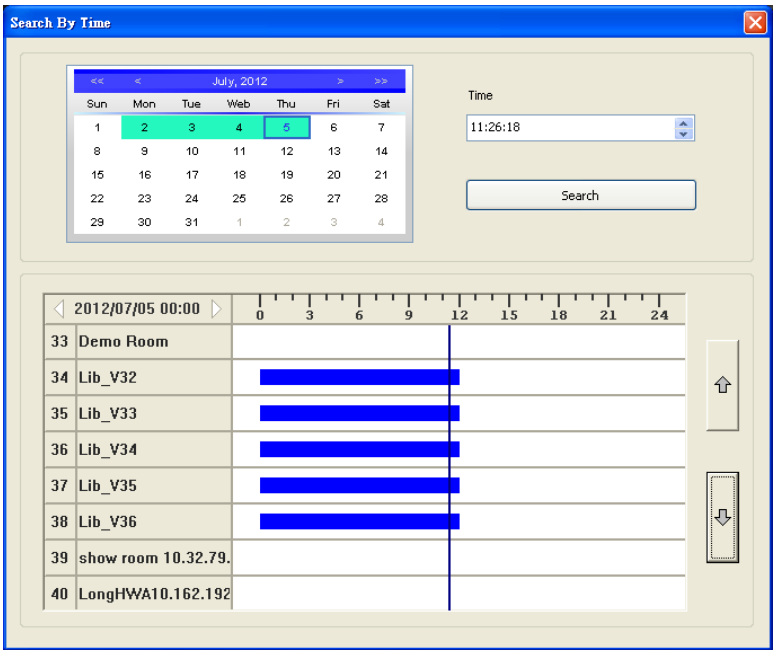


Figure 5-2

E. Press the " " button (Figure 5-3) will start playback of the video.

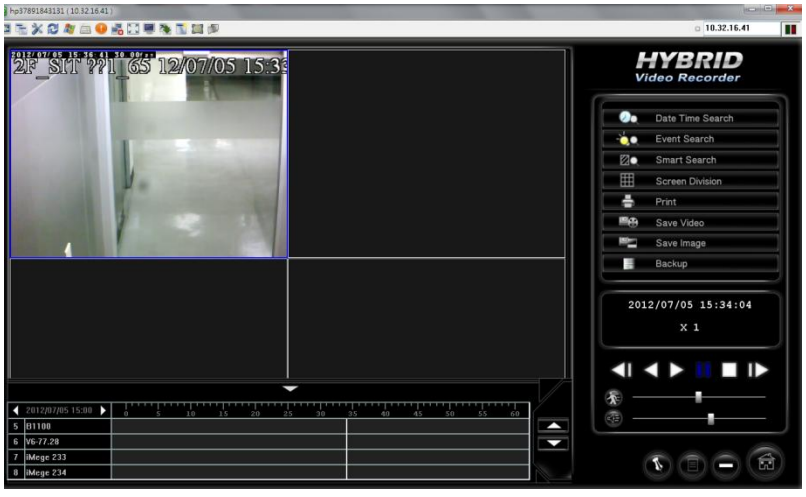


Figure 5-3

(2) Event Search

A. Firstly, select a camera which is to be searched on the main console of playback.

B. Click on the "Event Search" button, "Search by Event" dialog box will be popped out (Figure 5-4).

C. After specifying the condition (date, time, event type, etc.), click the “Search” button, it will list the event log about the camera.

D. For the event log, there are four types:

— “Motion”: be trigged by motions detected.

— “Sensor”: be trigged by sensors active.

— ”Video Signal”: be trigged by videos missed or recovered.

— “Manual Record”: be trigged by users’ “Manual Recording”.

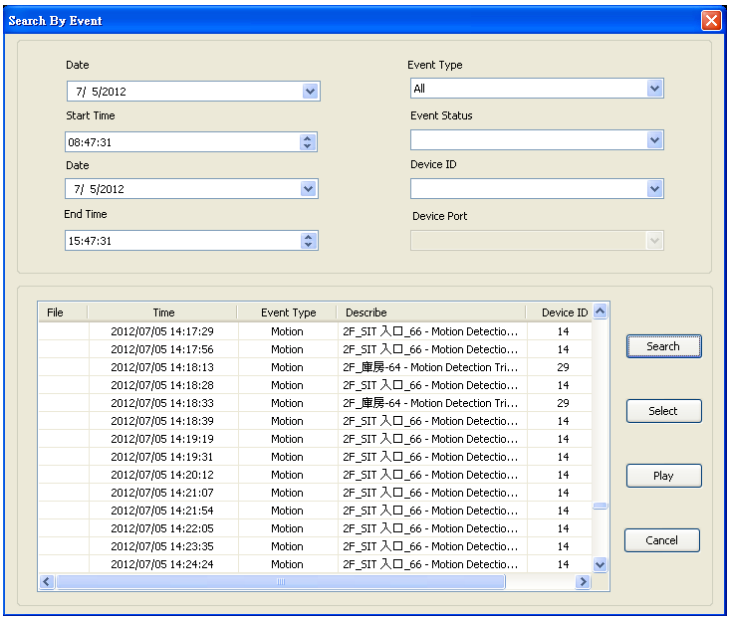

Search By Event
Date
7/ 5/2012
Start Time
08:47:31
Date
7/ 5/2012
End Time
15:47:31
Event Type
All
Event Status
Device ID
Device Port
File
Time
Event Type
Describe
Device ID
2012/07/05 14:17:29 Motion 2F_SIT 入口_66 - Motion Detectio... 14
2012/07/05 14:17:56 Motion 2F_SIT 入口_66 - Motion Detectio... 14
2012/07/05 14:18:13 Motion 2F_庫房-64 - Motion Detection Tri... 29
2012/07/05 14:18:28 Motion 2F_SIT 入口_66 - Motion Detectio... 14
2012/07/05 14:18:33 Motion 2F_庫房-64 - Motion Detection Tri... 29
2012/07/05 14:18:39 Motion 2F_SIT 入口_66 - Motion Detectio... 14
2012/07/05 14:19:19 Motion 2F_SIT 入口_66 - Motion Detectio... 14
2012/07/05 14:19:31 Motion 2F_SIT 入口_66 - Motion Detectio... 14
2012/07/05 14:20:12 Motion 2F_SIT 入口_66 - Motion Detectio... 14
2012/07/05 14:21:07 Motion 2F_SIT 入口_66 - Motion Detectio... 14
2012/07/05 14:21:54 Motion 2F_SIT 入口_66 - Motion Detectio... 14
2012/07/05 14:22:05 Motion 2F_SIT 入口_66 - Motion Detectio... 14
2012/07/05 14:23:35 Motion 2F_SIT 入口_66 - Motion Detectio... 14
2012/07/05 14:24:24 Motion 2F_SIT 入口_66 - Motion Detectio... 14
Search
Select
Play
Cancel

Figure 5-4

E. Select a event log and click the “Select” button, the “Search By Event” will be closed and the playback time will be jumped to the time of the event, and then click icon, the system start playback from that moment. To directly click the “Play” button in the “Search By Event” dialog box, video will aumatically start to play without the necessary of click icon.

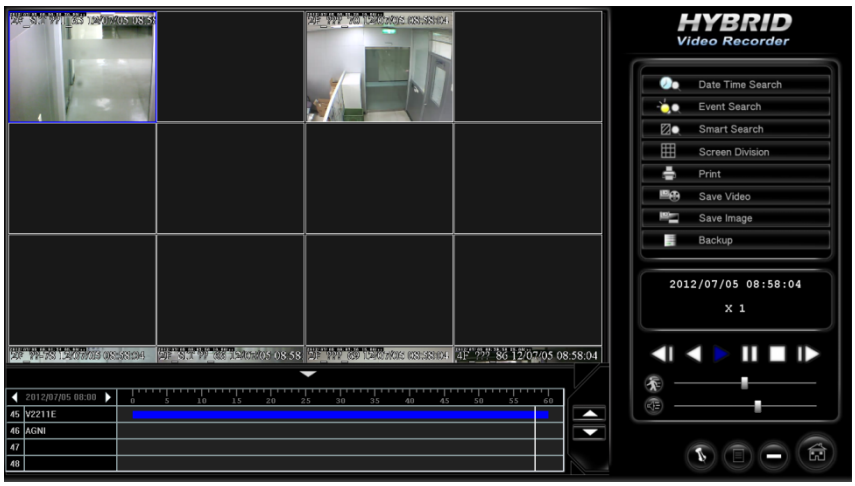

HYBRID
Video Recorder
Date Time Search
Event Search
Smart Search
Screen Division
Print
Save Video
Save Image
Backup
2012/07/05 08:58:04
X 1
2012/07/05 08:00
45 V2211E
46 AGNI
47
48

Figure 5-5

(3) Smart Search

It can help users to analysis and check a specific area in the recording files with a specific time segment.

To start an “Smart Search” process, users should select a camera which is to be analyzed first, and then click the “Smart Search” in the “playback” window, and assign the conditions (date, time, sensitivity, and interval) in the “Search By Smart {name of camera}” dialog box.

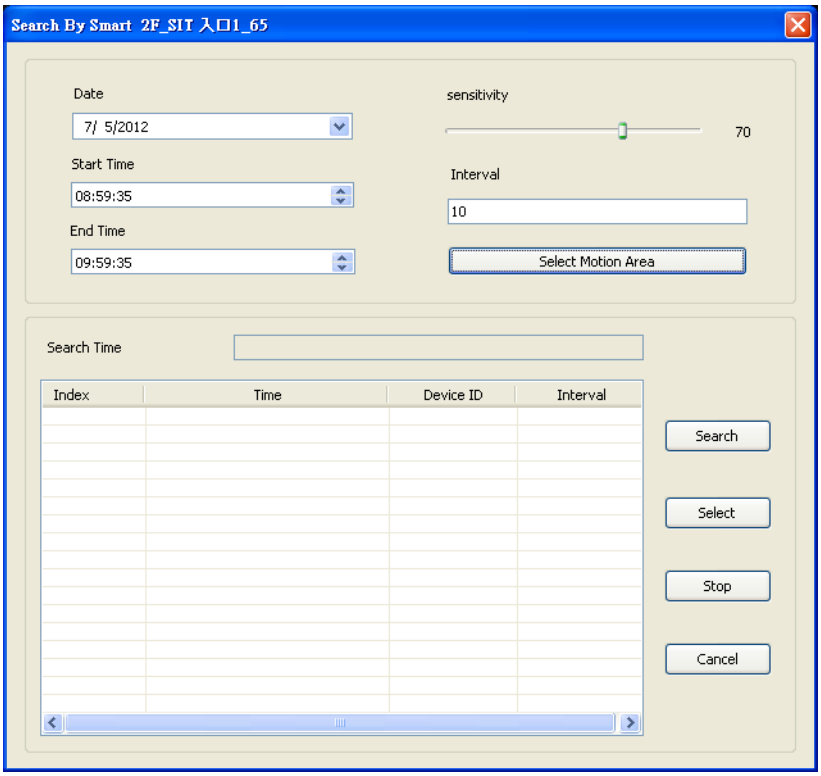


Figure 5-6

A. “Select Motion Area”: Click this button to define the areas for motion detection (Figure 5-7).

- To add a new part of the detection area, click on the "detection area" button to add a mouse to the lower right corner on the video display“+”, add the relevant detection area.
- To delete the part of the detection area, click on the "detection area" button to delete the mouse to the lower right corner on the video display “-”, delete detection area.
- To add all the detection area, click on the "select region detection area" button.
- To delete all the detection area, click on "Cancel all detected" button.

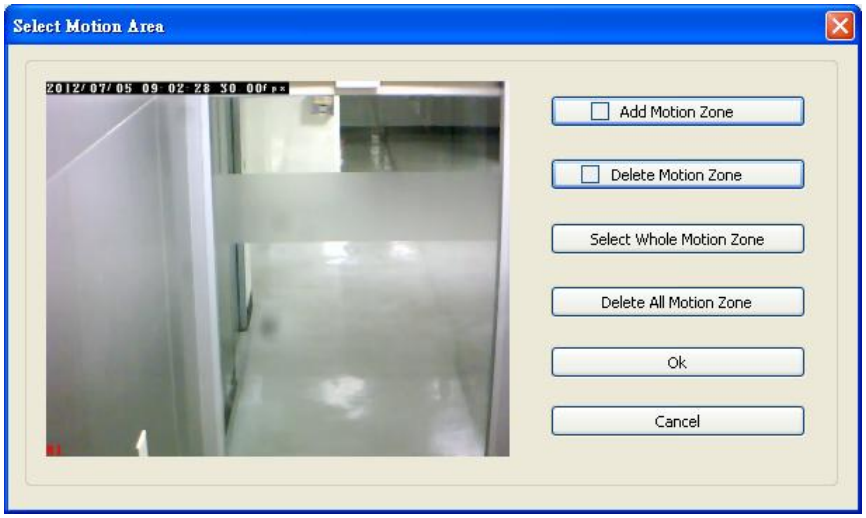


Figure 5-7

B. After all necessary configurations are well set, click on "Search" button (Figure 5-8), you can analyze the selected zone on the recording video and search results will be displayed on the dialog. Click on one of these results, and click on "select" button to return to main console of playback (Figure 5-8), then click the button " ▶ ", you can access to event corresponding video file.

C. If you want to stop the event searching process, click “Stop” button.

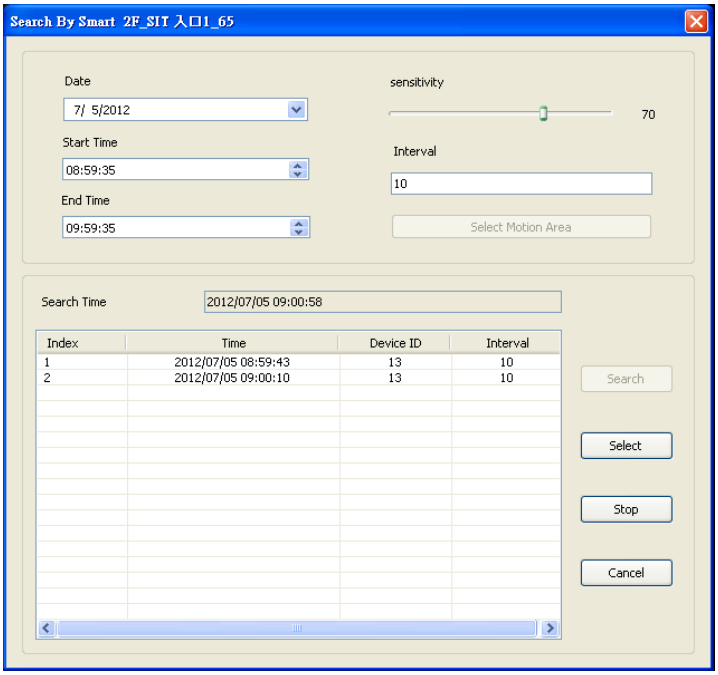


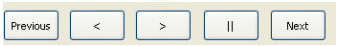
Figure 5-8

(4) Thumbnail search

A. In the playback page, right click the mouse on a channel you want to execute thumbnail search. Then the “Thumbnail search {Camera name}” will be popped out. (Figure 5-9)

B. Select the date and start time for this search, and enter a valid interval (the time interval between each thumbnail) and click on "Search" button.

C. Thumbnails will be displayed on the left upper side of the dialog with their time under the image. If thumbnail can’t be retrieved, the icon “ “ will be shown.

D. Video preview: Click on any thumbnail and click  for video previewing from the time spot of that thumbnail with forward/backward playing, pause, and go to next or previous time spot.

E. Click “Select” and you will go back to the playback page and the time bar will be jumpped to the time of the selected thumbnail.

F. Click to playback from that time spot.

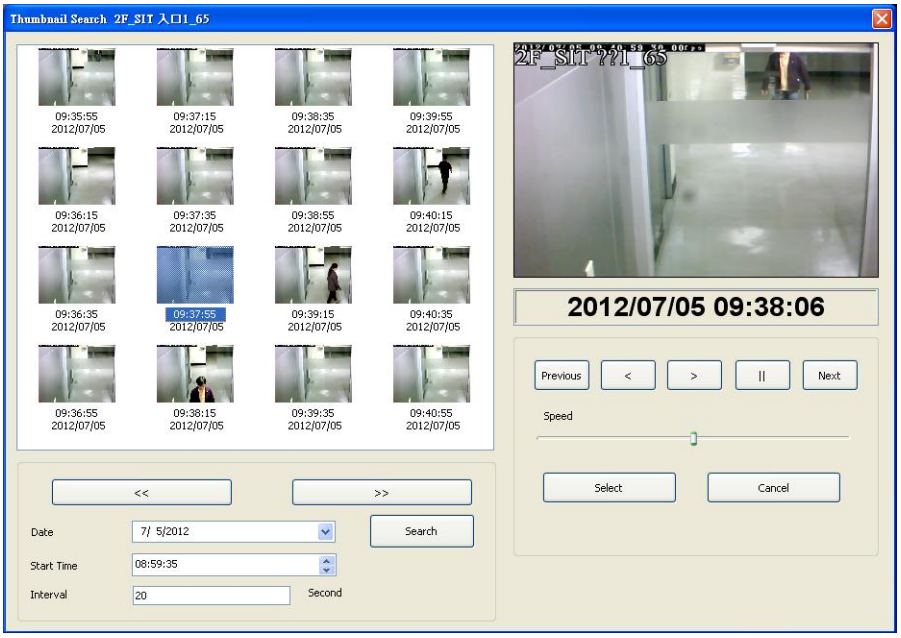


Figure 5-9

(5) Print

In the playback page, select a camera from one of playing channels, and then click on the "Print" button, it will bring on a "Image Edit {camera name}" dialog box (Figure 5-11), modify the following information, then click the "Print" button, and select Print image size, you can have the picture print out.

- Rotation: 180 degree rotating for this photograph.
- Crop: Select a region on the photo by dragging & dropping, then click on this button, this area can be enlarged and rest of the area will be deducted.
- Revert: Restore for the previous change.
- Show Date / Name: Put Camera Name and Date / time on the picture.
- Save with watermark: User can choose to overlay a watermark on the image. Click on “Watermark” and a dialog (Figure 5-12) will pop out with all related configuration. Afterward, click “ok” to save all configurations and close the dialog. Then if user check on “Show Watermark” check box, the image will be save with watermark successfully.
- HSL effects: To adjust the picture’s Brightness and Saturation instantly. Click "Reset" button to restore to default.
- RGB effects: To adjust the picture's color scheme with the level of red, green and blue. Click "Reset" button to restore to default.
- Print: After all above settings are done, press “Print”, select the size of the actual printing, and click “ok” to activate the printing.

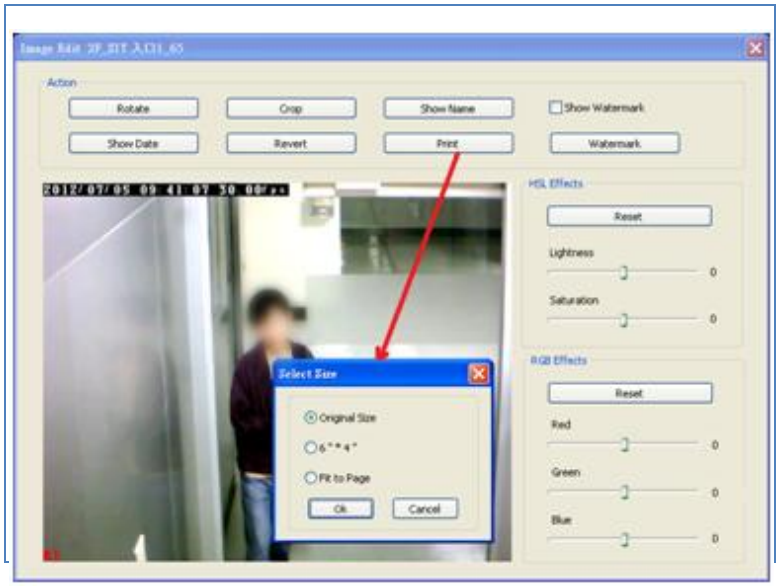


Figure 5-11

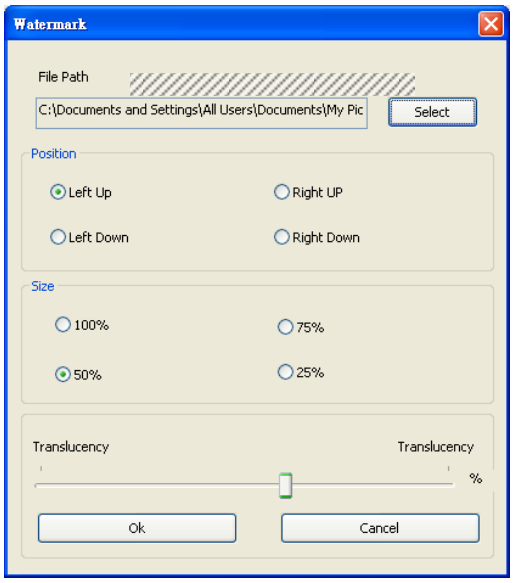


Figure 5-12

Note: To use the Photo Print functions, the privilege of local data export is required.

(6) Save Video (as AVI)

In the playback page, select a camera from one of playing channels, and then click the "Save Video" button, pop-up "Save Video {camera name}" dialog box (Figure 5-13). After finishing the following settings, press "Save" and set the storage path, the AVI file will be saved successfully.

- To set the start/end date/time of the video saving period, user can input the date/time manually, or select from event's time (refer to page 56), from manual snapshot search's time (refer to page 59), or from a bookmark.
- Displays watermark: Save AVI movies with watermark overlay. Check the "show watermark" check box, and click "Watermark" for detail setting.
- Display Name / Date: Check for displaying the camera's Name and Date/time on the image.

Note: To enable the function of Save Video, the right of "local data export" must be granted first. The progress of saving and the date/time of on-going data will be displayed in the "Progress" column.

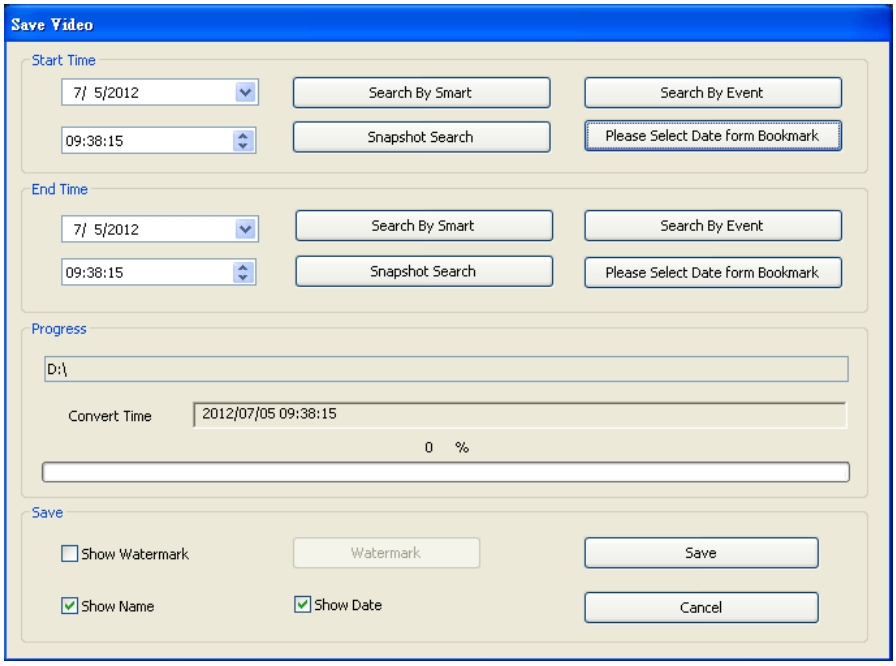


Figure 5-13

(7) Save image

In the playback page, select a camera from one of playing channels, and then click on the "Save Image" button on the right side of the page, it will bring on a "Image Edit {camera name}" dialog box (Figure 5-14), modify the following information, then click the "Save" button on upper side of this dialog, you can have the picture saved and the dialog will be closed.

- Rotation: 180 degree rotating for this photograph.
- Crop: Select a region on the photo by dragging & dropping, then click on this button,

this area can be enlarged and rest of the area will be deducted.

- Revert: Restore for the previous change.
- Show Date / Name: Put Camera Name and Date / time on the picture.
- Save with watermark: User can choose to overlay a watermark on the image. Click on “Watermark” and a dialog (Figure 5-12) will pop out with all related configuration. Afterward, click “ok” to save all configurations and close the dialog. Then if user check on “Show Watermark” check box, the image will be save with watermark successfully. (ref. to figure 5-12)
- HSL effects: To adjust the picture’s Brightness and Saturation instantly. Click "Reset" button to restore to default.
- RGB effects: To adjust the picture's color scheme with the level of red, green and blue. Click "Reset" button to restore to default.

Note: To enable the function of Save Image, the right of “local data export” must be granted first.

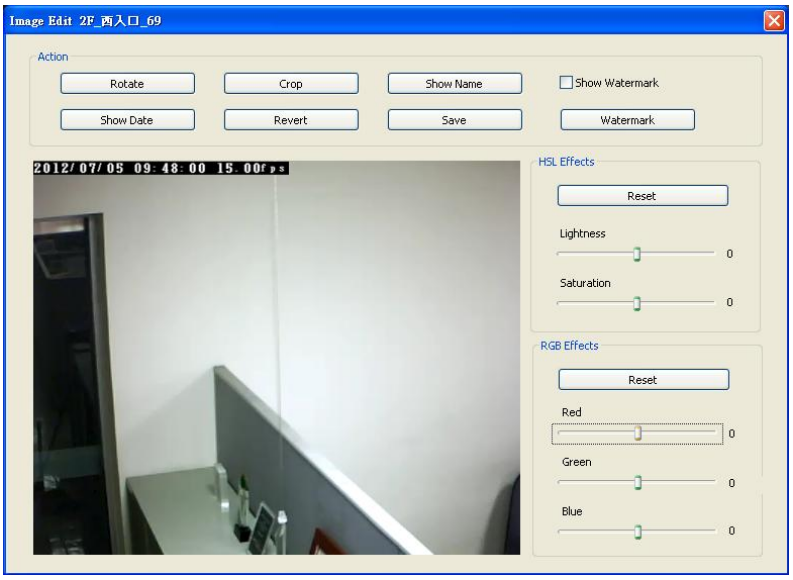


Figure 5-14

(8) Backup

A. In the playback page, click the "Backup" button on the right side will pop-up "Backup" dialog box (Figure 5-15) with two options - backup to the hard disk or burn to CD-ROM:

Note: Click on the icon “ ” in the live view page will also pop out the same functional dialog.

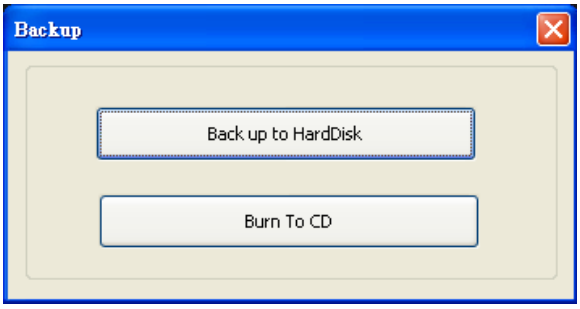


Figure 5-15

B. Click on the "backup to the hard disk" button will pop-up “Backup to Hard Disk” dialog (Figure 5-16). To set the start/end date/time of the backing up, user can input the date/time manually, or select from event’s time (refer to page 56), from manual snapshot search’s time (refer to page 59), or from a bookmark. If user chooses “Burn to CD”, the same dialog will also pop out with only some slight difference (Figure 5-17).

C. Click on "Detect Burn Volume”, estimated data size according to user’s configuration will be brought out.

D. Click “Burn” or “Start to backup”, the backup will be started and user can check the backup progress on the progress bar on the lowest side of this dialog.

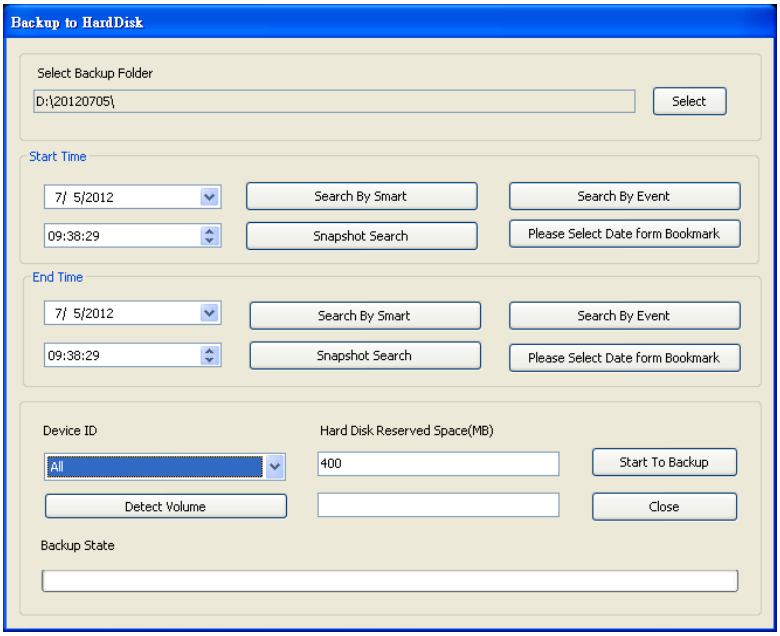


Figure 5-16

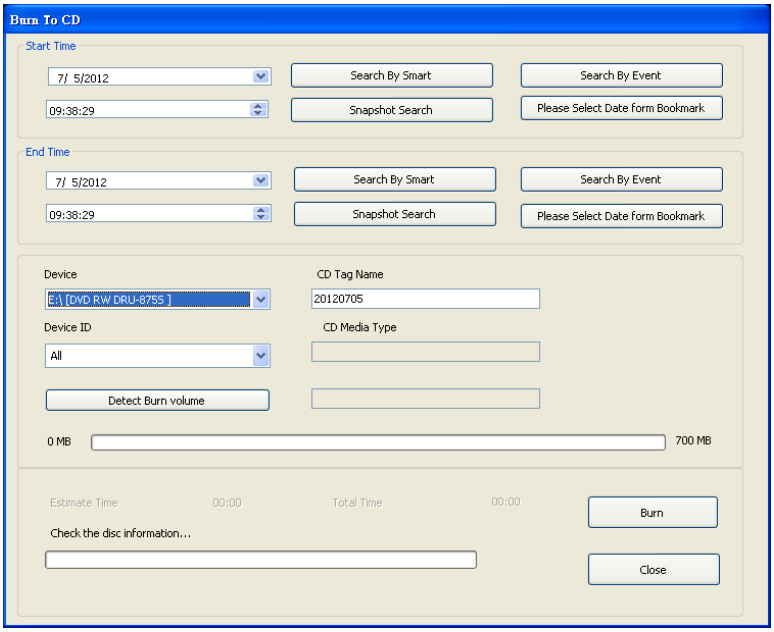


Figure 5-17

(9) Bookmark

User can make bookmarks during video playback when finding any important moment in the record. And user can make the playback time directly go to any important moment by clicking on one of bookmarks.

A. Add a bookmark (Figure 5-18): Click on the “ ” on the lower right corner of the playback page. Then a dialog “Add Bookmark” will pop out. Enter the name of the bookmark and click “save” to save this bookmark.

B. Playback by Bookmark(Figure 5-19):

(A) Click the “ ” button on the lower right corner of the playback page. The menu of “Bookmark” will pop out.

(B) Choose the bookmark you want to playback and press “Select”. The time axis of playback will be jumped to the time of the bookmark you select. Then click “ ” on the playbackpage, the video will start to playback from the time user select.

(C) To delete a bookmark, choose a bookmark you want to delete and press “delete”.

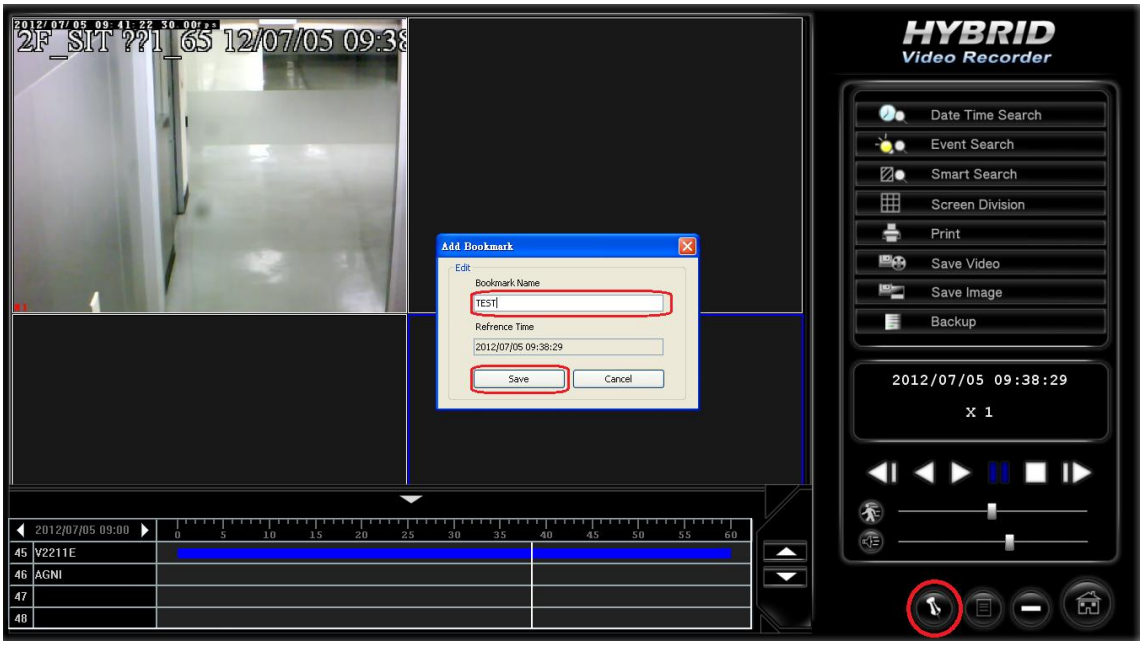


Figure 5-18

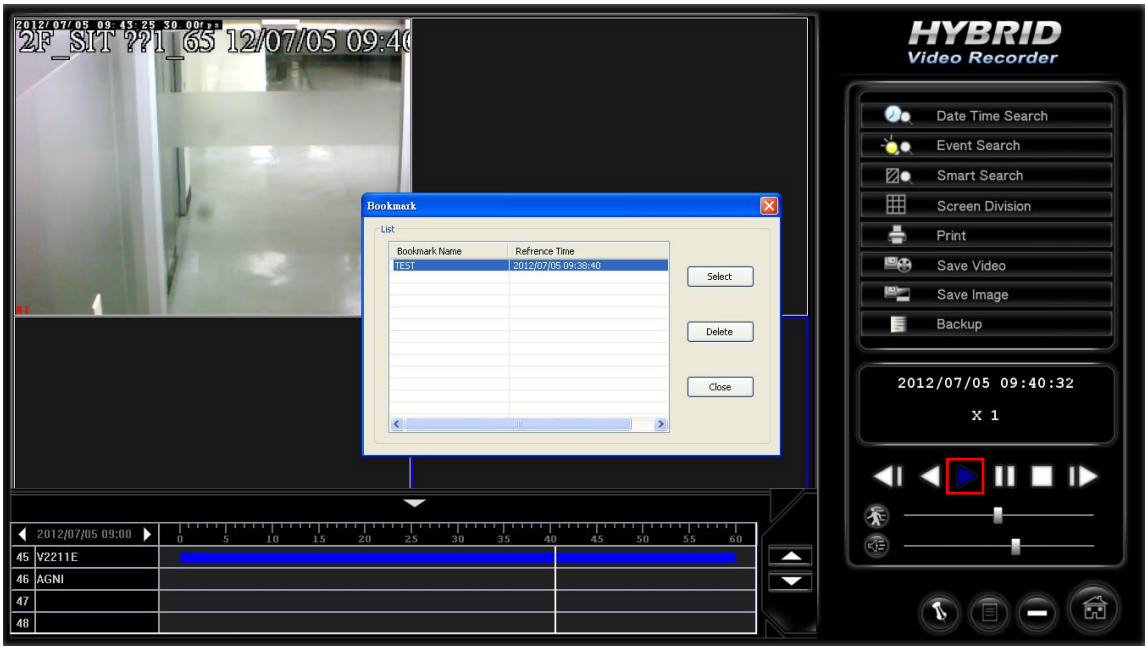


Figure 5-19

5.2 Event Log Query

In the live view page of HVR, click on the icon “ ” to bring up the "View Log” dialog box (Figure 5-20). Please complete all search criteria include Date, start/end time, event type/status, and other necessary information, then click “Search”, the logs will be brought out immediately. Afterward, user can choose to save as Office Excel or print out.

Below is the list of all event type and related selectable status.

No.	Event Type	Status
1	**System**	Leave the system, the program starts, exit the program, change settings, create a Web page server failure
2	**Login**	Login, logout, login failed
3	**Hardware monitoring**	Preview channel loss of capture card, capture card preview channel recovery, loss of capture card video channel capture card video channel recovery
4	**Store**	The recording space is full, the recording space has been restored, the video store failed
5	**Connection**	Remote monitoring connection, remote monitor disconnected, remote play connection, remote playback disconnection, RTSP remote monitoring to see connections, RTSP remote monitoring break
6	**Motion Detection**	Motion detection trigger
7	**Inductor**	Sensor is triggered
8	**Camera signal**	The video is lost, video restoration
9	**Manual recording**	Users to enable / disable manual recording

Table 5-1

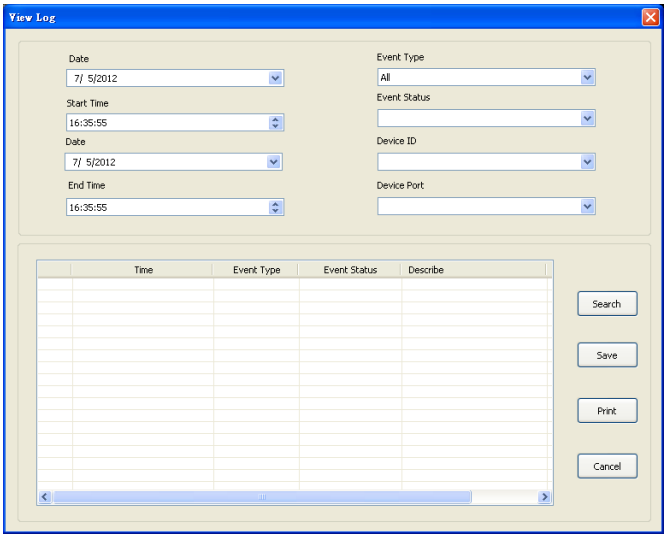

View Log
Date
7/ 5/2012
Start Time
16:35:55
Date
7/ 5/2012
End Time
16:35:55
Event Type
All
Event Status
Device ID
Device Port
Time
Event Type
Event Status
Describe
Search
Save
Print
Cancel

Figure 5-20

6 Network Service Configuration

6.1 Internet Settings

Users can remotely browse for video/audio, e-map and event logs through Internet Explorer.

Instructions:

Click " " button, a dialog box named "Settings" will pop out. Click on the "Network Service" (Figure 6-1) and following columns will be displayed:

(1) Connecting setting:

A. Base port: The starting port number. The system defaults value is 12480.

B. Limit remote view link quantity: For limiting the quantity of remote connection with Live view. The maximum number is 64 connections of live view from different IP.

C. Limit remote play quantity: For limiting the quantity of remote connection with playback. The maximum number is 64 connections of playback from different IP.

Note: For example, if a user uses 2 accounts on 1 PC to open 3 IE pages for live view and another 2 IE pages for playback, there are totally 3 connection counted for live view connection and 2 connection counted for playback connection.

(2) Enable Web Server: If this check box is checked, remote connections via HVR remote web client are allowable. Otherwise, users can't access HVR via web client.

(3) Enable RTSP server: Check for this function, and users can retrieve live view streaming via RTSP protocol on other players support RTSP.

(4) Enable time synchronization: If the checkbox is checked and the IP is inputted, HVR system will automatically synchronize its time with a NTP (Network time protocol) server as the IP user key-in.

(5) Enable Dynamic DDNS (Dynamic Domain Name Server): Set the domain name of HVR for being able to be visited through a domain name address via Internet Explorer, like www.HVR.com. Please check "Enable DDNS" first, and key-in DDNS provider, domain name, account and password.

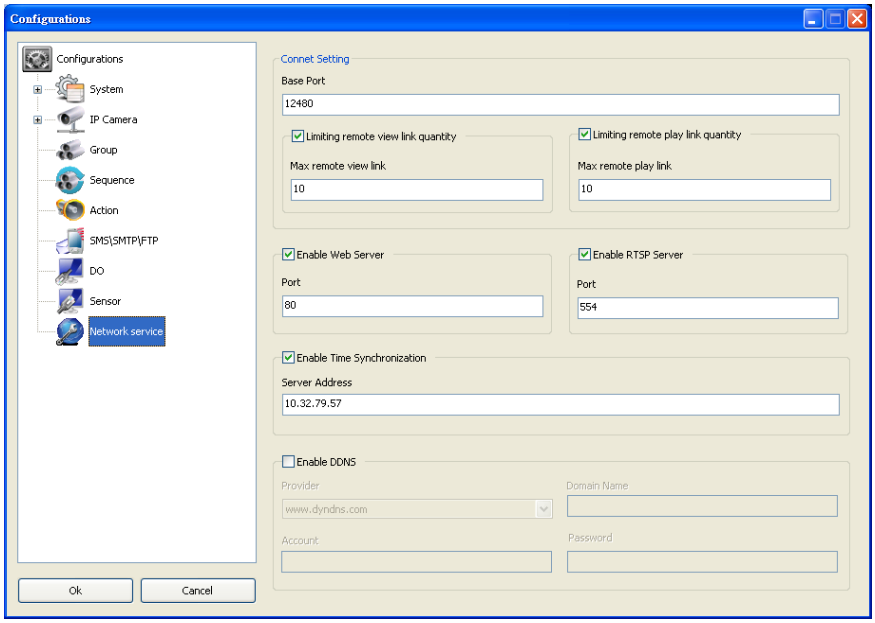


Figure 6-1

(6) After setting above, open an IE browser, click "Tools" -> "Internet options" -> "Security" -> "Sites", add the IP address of the HVR server IP address into the trusted sites (Figure 6-2 / Figure 6-3).

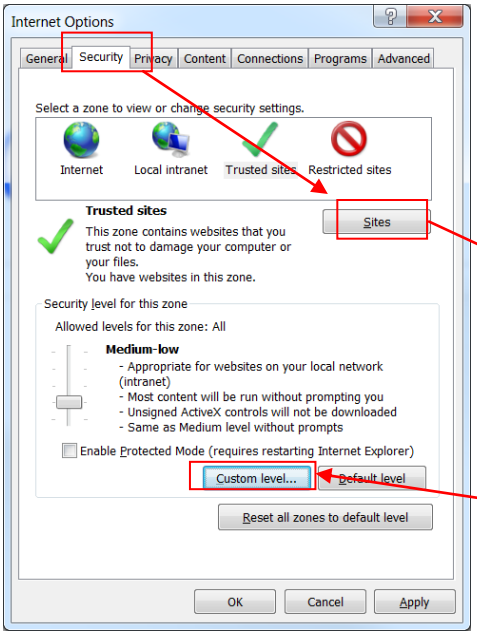


Figure 6-2

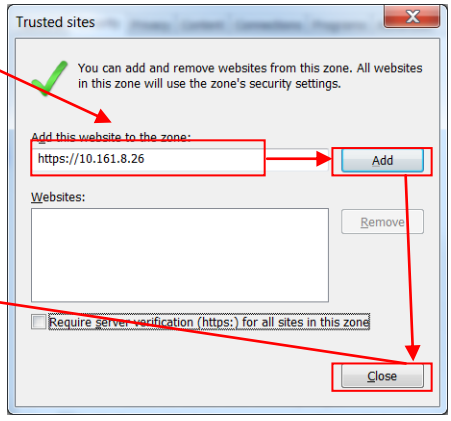

Trusted sites
You can add and remove websites from this zone. All websites in this zone will use the zone's security settings.
Add this website to the zone:
https://10.161.8.26
Add
Websites:
Remove
Require server verification (https:) for all sites in this zone
Close

Figure 6-3

(7) Click the "Custom Level" button (Figure 6-2), set the following two items to be “Enable”. (Figure 6-4 / Figure 6- 5)

— “Download unsigned ActiveX controls”

— “Initialize and script ActiveX control not marked as safe for scripting”

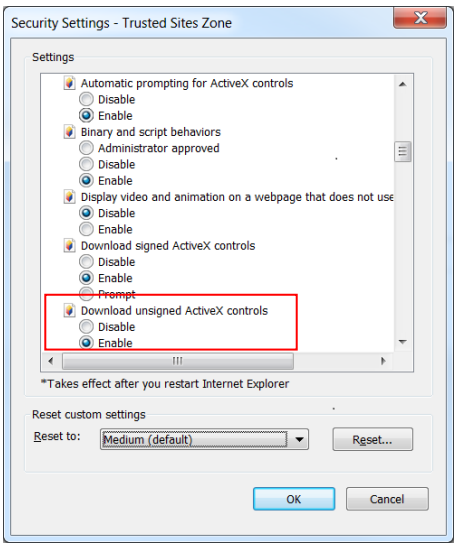


Figure 6-4

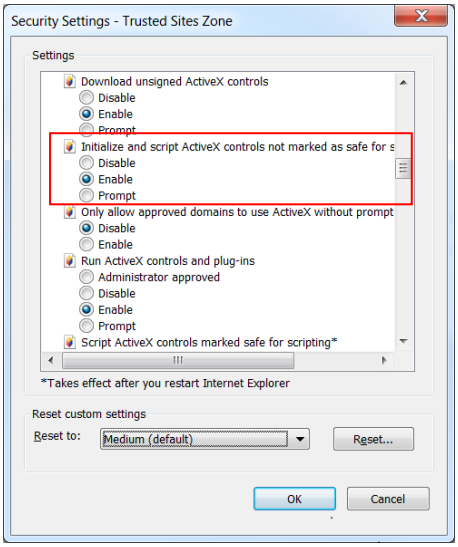


Figure 6-5

6.2 Remote real-time browsing

Note: For language display on the web client, only Traditional Chinese is supported.

(1) Open IE browser, enter the HVR server's IP address, press the "Enter" on your keyboard to bring on the following web page (Figure 6-6).

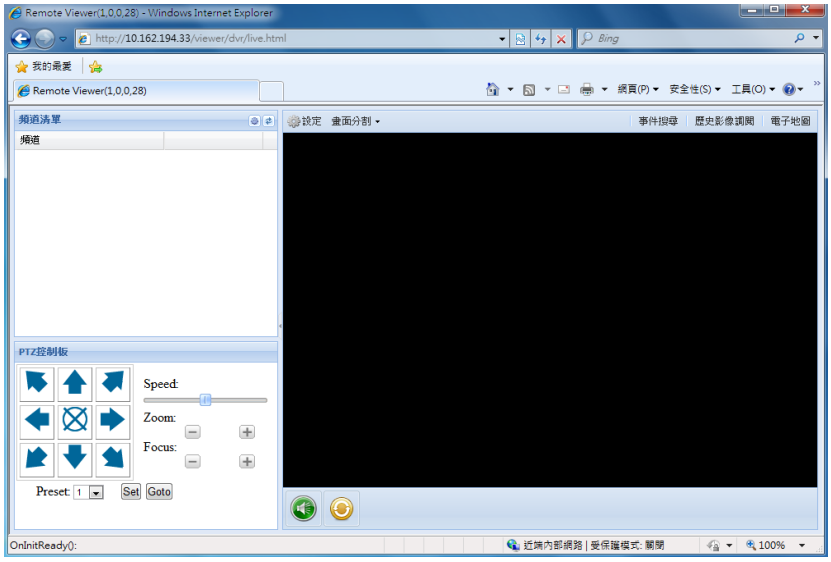


Figure 6-6

(2) Click on the "設定(setting)" button, pop-up "組態設定(configuration)" dialog box (Figure 6-7).

A. 使用者資訊設定(User information setting): Input account(帳號) / password(密碼) same with HVR server, and check "是否儲存密碼" if user want to store the password.

B. 輪播設定(Sequence setting): To set the time interval for sequential live video playing. The system default interval is 5 seconds.

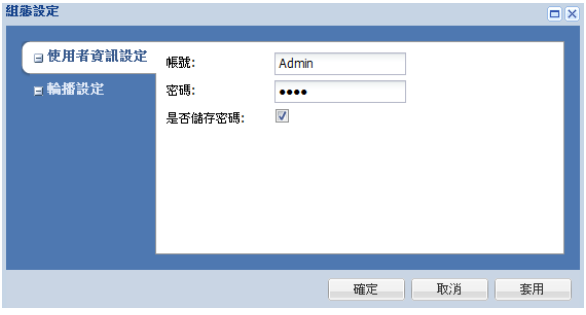


Figure 6-7

(3) Click "確定(OK)" button to close the dialog, and then click " " icon to pop-up “頻道群組編輯器(channel group editor)”.

A. Click “Add group” and a folder will be made in the column. Edit the name of the group by clicking on the text of the “group name” and enter the name you want.

B. (Figure 6-8) To add channels into the group, drag the videos displayed in the left column named “All Channel” into the folder of the group and small thumbnails with cameras’ name will be shown underneath the folder, which means channels are added successfully.

Note: Several groups can be made for an account and it has no correspondence to the group in HVR local server.

C. To delete groups, choose a folder of group you want to delete, and click “Delete” to delete the group.

D. Click “確定(OK)” to save the setting you made and close this dialog. Or you can click “取消(cancel)” to close this dialog ignoring the setting you just made.

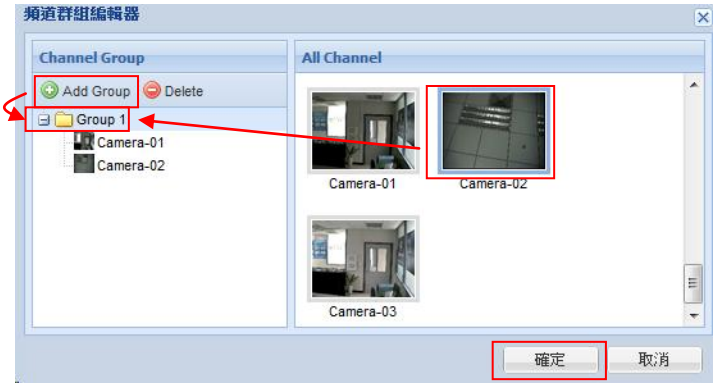


Figure 6-8

(4) Start to live view(Figure 6-9)

A. After successfully setting the channel group, go back to the main page of HVR remote web client and the groups you made should be shown on the left column of this page.

B. Click "Play" button next to the group and video of that group will all be displayed on the right side of this page.

C. Click “Stop” to stop viewing video of that group, you can control the ball machine and for page segmentation.

D. Press “畫面分割(Video layout)” to choose a video layout you desired.

E. PTZ control：If the channel you select supports PTZ, you can control its PTZ via

“PTZ控制板 (PTZ control board)”.

F. Audio Listening: Choose a channel which you want to listen to, and click on “ ” button to turn on its audio.

G. Sequence viewing: Click on “ ” button to start the group sequencing and click again to stop sequencing.

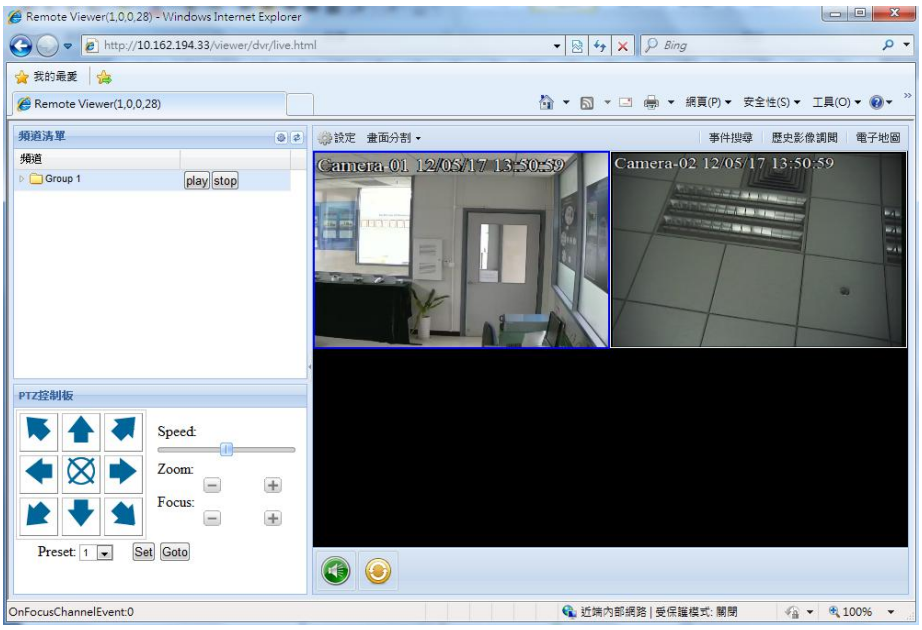


Figure 6-9

6.3 Remote event search

(1) Click "事件搜尋(Event Search)" button on the upper right corner of the page will pop-up a dialog box (Figure 6-10), complete the “發生日期(event search period)” with start(從)/end(至) date/time, and select “事件類型(the type of event)”, “事件狀態(Event status)”, “裝置名稱(Device name)” and “裝置埠號(Device port number)”, finally click on “搜尋(Search)” button for retrieving data you desired.

(2) Click the “重設(Reset)” button, all of the search conditions will be restored to the default settings.

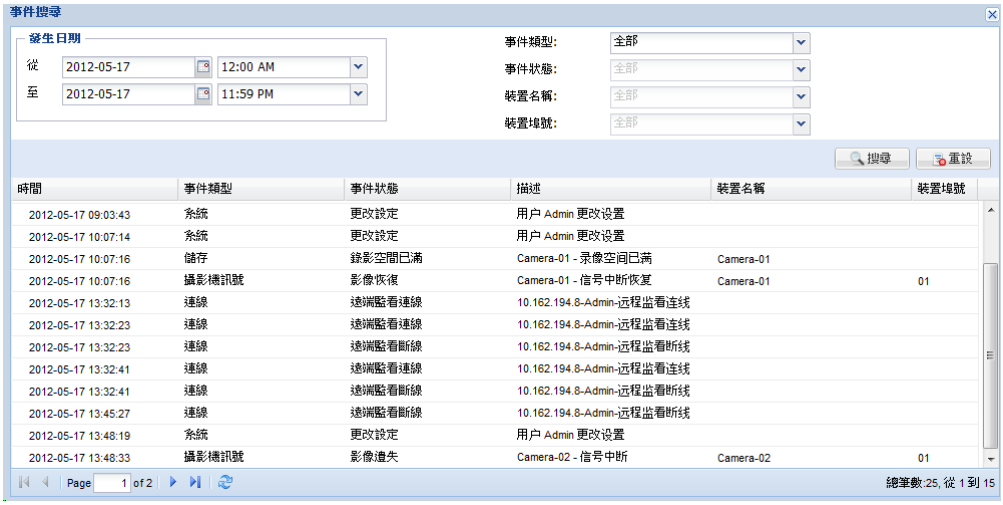


Figure 6-10

6.4 Remote video playback

Click the “歷史影像調閱(Playback)” button on the upper right corner of the page and user will enter “Remote Playback” page. (Figure 6-11). There are 2 ways for retrieving video data. User can also choose to listen to the channel recording audio or set the speed of playback.

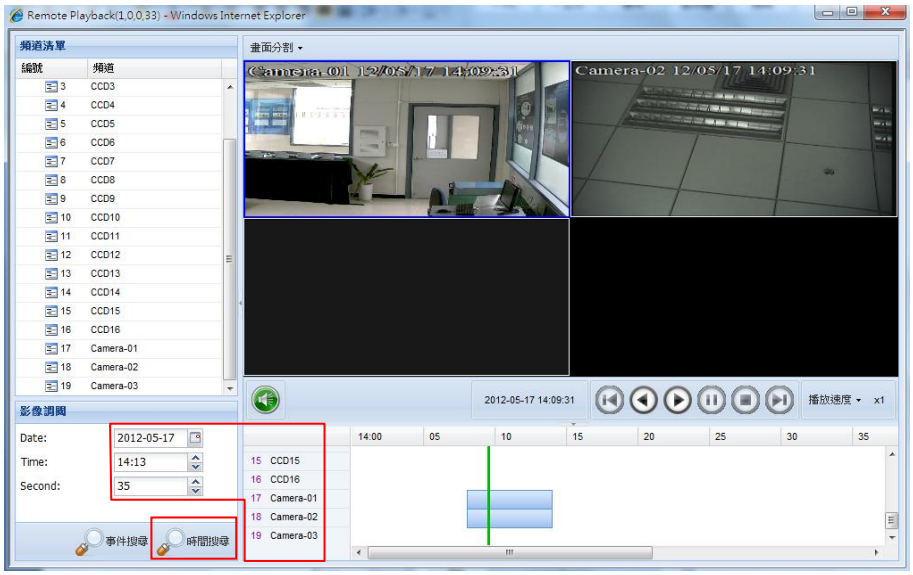


Figure 6-11

(1) Channel selection

Choose playback channels by dragging channel from the tree on the left side of this page, and drop it on the video window user desired.

(2) Search by event

Click on the “事件搜尋(Event Search)” button pops up the a window titled “事件搜尋(event search)”, get the event log list referring to “Remote event search” on page 90, and double-click on an event you want to playback, then the window will be closed and the playback time will jump to your desired point.

Figure6-12

(3) Search by date/time

Select the start/end date/time, and click on the “時間搜尋(Time Search)” button, the time period with video data will be indicated as blue bars on the left down side of this page. Move the time axis overlayed on the blue time bar to the desired time point, and then click the "Play" button, video will start to play.

Note: Click "Search" button, if the video, the light blue progress bar is displayed, otherwise not.

(4) To hear the audio :

Choose one of the displayed channel and click " " button, you will hear the recording of sound. Click again to close this function.

(5) Playback speed:

Click on “播放速度(playback speed) and you will be able to set the play speed of all the video.

6.5 Remote E-Map

Click on “電子地圖(E-Map)” button on the upper right corner of the live view page (as Figure 6-13), and a new page titled “eMap” will be popped out. Maps at every layer and icons of devices will be displayed.

(1) Event highlight

If an event of a device is triggered, the device will be highlighted in red.

(2) Stop receiving event (停止接收事件)

If user doesn’t want to receive event alarm on the map, click on “停止(Stop)” button next to the text of “停止接收事件”.

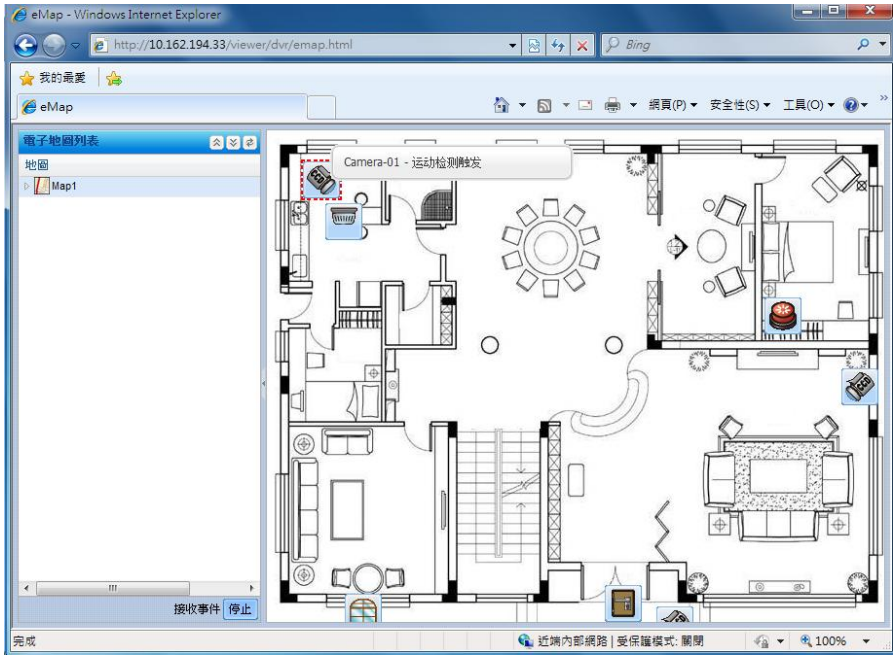


Figure6-13

7 Abbreviation and definition

- HVR: Hybrid Video Recorder, Hybrid video recording software;
- PTZ: Pan (Up and down), Tilt (left and right), Zoom & Focus control for speed dome, PT camera, camera with PT head attached, and camera with motorized zooming lens
- MPEG-4: Moving Pictures Experts Group, as the video/audio compression format
- H.264: Video/audio Codec compression format
- FPS: Frame Per Second, indicates how many frames in one seconds for a video. Higher FPS value, more vivid the video.
- 1080P: A kind of resolution, equal to Full HD, 1920 x 1080 two million pixels;
- 720P: A kind of resolution, equal to HD, 1280 x 720 one million pixels;
- D1：A kind of resolution, 720 x 480 pixels
- VGA : A kind of resolution, 640 x 480 pixels
- CIF: A kind of resolution, 352 x 288 pixel;
- DDNS: Dynamic Domain Name Server/Service
- AVI: Audio Video Interleaved
- BMP: An image format without compression
- JPEG: An image format with compression
- IP: Internet Protocol, Internet Protocol address.